

USER: Matt Streiber; TAB: W1.0 RETRAINING WALL PLAN
 DATE: June 17, 2022 - 7:32:24 AM
 DRAWING: S:\JOBS\Job2021\21-0154\CAD\Drawings\Plan\Retaining\W1.0.dwg

General Notes:

- This design 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 wall 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.
- To prevent damage to the walls during site development, all surface drainage should be directed away from the walls. 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.
- This project consists of three modular block retaining walls.
- Minimum embedment of the walls shall as be indicated in the elevation views.
- It may be necessary to adjust the grades at the top and ends of the walls to make the walls work around local variations in grade.
- Design of safety fencing or barricades at the top of the wall is specifically excluded from the design of these walls. We recommend that an appropriate safety barrier be considered by the owner for the top of the walls.
- 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.
 Retained Soil - Lean Clay, Phi 29 degrees, 0 psf cohesion, Unit Wt 120 pcf
 Foundation Soil - Lean Clay, Phi 29 degrees, 25 psf cohesion, Unit Wt 120 pcf
- Block Type - Redi-Rock regular blocks with 1.625" setback.
- Surcharge - Wall 1 Roadway 125 psf; Wall 2 None; Wall 3 Parking Lot 125 psf
 Backslope - Wall 1 Horizontal; Wall 2 Horizontal; Wall 3 Horizontal
 Toe Slope - Wall 1 Short; Wall 2 Horizontal; 3:1 Wall 3 from 0+00 to 0+86
 Reinforcement - NA Geogrid Structure.
- 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.
- Compaction of the leveling pad shall be to 95% Standard Proctor (ASTM D698).
- The plan sheets are intended to be printed on 11x17 sheets at 100% so the physical scales can be used.
- 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.

TYPICAL SECTION
NOT TO SCALE

Labels in diagram:
 28"
 28"
 41"
 41"
 FILTER FABRIC
 DRAINAGE AGGREGATE 1-INCH CLEAN
 2"-MINUS CR. LIMESTONE COMPACT UP TO LEVEL WITH GRADE AT TOE OF WALL
 12" MINIMUM COMPACTED GRANULAR-BASE LEVELING PAD
 Exterior Finish Grade

Cover Page

JOHN E. SHIVELY
 PROFESSIONAL ENGINEER
 NUMBER PE-024948
 Date: 6-16-2022
 Expires: 12/31/2023

New Retaining Walls
 Texas Roadhouse
 O'Fallon, Missouri

GROUNDLOGIC L.L.C.
 Post Office Box 35258
 St. Louis, Missouri 63135
 314.440.3124
 MO Prof. Eng'g Corp. 2018016816

JOB NO.: Q220602
 DATE: 06/16/2022
 SHEET 1 OF 6
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Orientation View

Labels in diagram:
 Wall 3
 Wall 2
 Wall 1
 MEXICO RD
 UTILITY EASEMENT BOOK 1218, PA
 10' TEMPORARY CONSTRUCTION EASEMENT
 PHA' EASEMENT
 North
 GRAPHIC SCALE (0', 10', 20')

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 SHEET 2 OF 6
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DEVELOPER/OWNER: MOHR CAPITAL LLC 14643 DALLAS PARKWAY SUITE 1000 DALLAS, TX 75254 (214) 801-9860	CITY REVIEW COMMENTS #2 NO DATE: 06/17/2022
THE PROFESSIONAL, WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON, HAS ASSURED THAT THIS DRAWING WAS PREPARED BY HIMSELF OR UNDER HIS CLOSE PERSONAL SUPERVISION AND THAT HE IS A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MISSOURI. HE HAS REVIEWED THE DRAWING FOR ACCURACY AND COMPLIANCE WITH ALL APPLICABLE CODES, REGULATIONS, ORDINANCES, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SPECIFICALLY IDENTIFIED ON THIS DRAWING. HE HAS REVIEWED THE DRAWING FOR ACCURACY AND COMPLIANCE WITH ALL APPLICABLE CODES, REGULATIONS, ORDINANCES, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SPECIFICALLY IDENTIFIED ON THIS DRAWING.	
TEXAS ROADHOUSE IMPROVEMENT PLANS MEXICO ROAD O'FALLON, MO 63368	
RETRAINING WALL PLAN	
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DRAWING SCALE AS SHOWN	