The Reinforced Earth Company
8614 Westwood Center Drive Suite 1100, Vienna, Virginia 22182 (703) 821-1175

**TERRATREL**
A WIRE FACED MSE WALL SYSTEM

### DESIGN CRITERIA

1. **Design is based on the assumption that the material, layout, and earth load on the reinforced volume, methods of construction, and quality of prefabricated materials shall conform to specific design criteria.**

2. **Soil Parameters:**
   - Soil wall control drawings for soil characteristics of foundation materials to be used in the design and earth load on the reinforced volume shall be provided for prefabricated materials used in earth load on the reinforced volume, methods of construction, and quality of prefabricated materials shall conform to specific design criteria.
   - The wall shall be designed for the loads indicated on the earth load on the reinforced volume, methods of construction, and quality of prefabricated materials shall conform to specific design criteria.

3. **The maximum applied earth pressure at the foundation level is as shown on the wall design as per design criteria.**

4. **Any unacceptable foundation loads from the reinforced volume, as determined by the designer, shall be evaluated and resolved with suitable material or otherwise stabilized as directed by the designer.**

5. **The maximum factors of safety required for design:**
   - **Overspill:** 2.0
   - **Design:** 1.5
   - **Reinforcement:** 1.5 (Allowable Tensile Capacity = 0.75 x HSP)

6. **Condition in earth load on the reinforced volume, methods of construction, and quality of prefabricated materials shall conform to specific design criteria.**

7. **The wall shall be designed for the loads indicated on the earth load on the reinforced volume, methods of construction, and quality of prefabricated materials shall conform to specific design criteria.**

### MATERIALS

8. **Only the following materials are supplied by the Reinforced Earth Company:**
   - Prefabricated wire facing panels
   - Soil reinforcement
   - Rebar connections
   - Soil fill
   - Reinforcement fabric

9. **Any other materials called for in the contract plans or specifications are to be supplied by the contractor.**

10. **Soil reinforcement layout:**
    - The reinforcement layout shown in the plans is measured from the base face of the wire facing panels, to the limit of the earth load on the reinforced volume, and are the layouts used in the reinforcement design calculations.

### DRAWINGS

11. **The Reinforced Earth Company supplies facing panels and accessories to be used in connection with other materials in the construction of the reinforced earth retaining walls detailed herein.**
    - The construction and installation procedures manual furnished by the Reinforced Earth Company is intended to provide a general guide to the installation of facing panels and accessories. However, this manual is general in nature and does not account for project-specific criteria.

12. **The information and guidance contained in this manual does not replace the contractor's responsibility for ensuring the proper execution of the wall.**

13. **The contractor is responsible for ensuring that the wall is constructed in conformance with this manual.**

14. **This manual contains information proprietary to the Reinforced Earth Company and is being furnished for the use of the Florida Department of Transportation only in connection with the earth load on the reinforced volume, and is furnished for the use of the Florida Department of Transportation only in connection with the earth load on the reinforced volume. The contractor is responsible for ensuring the wall is constructed in conformance with this manual.**

15. **The system shall be used in accordance with the earth load on the reinforced volume.**

---

**STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION**
**RETAINING WALL SYSTEM**
**THE REINFORCED EARTH COMPANY**
**TERRATREL WIRE WALL**
**TERRATREL WIRE WALL**

This document contains proprietary information and is intended for use by the Florida Department of Transportation only.
VERTICAL ALIGNMENT DIAGRAMS

COLORS HAVE BEEN EXAGGERATED FOR CLARITY TO SHOW VERTICAL ALIGNMENT WITH LAYERS AND STEPS. VERTICAL ALIGNMENT IS OPTIMAL AND WHERE USED, MAY ENHANCE OVERALL STABILITY OF WALLS WITH SMALL CHANGES IN SLOPE.

TYPICAL WIRE WALL SECTION

This system shall be used in conjunction with:
- Earth reinforcement only
- Terrawall wire wall