

# A TEMPORARY GEOTREL/WIRE-FACED MSE WALL SYSTEM

## (CONT. GENERAL NOTES)

### DESIGN CRITERIA

- DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE REINFORCED EARTH VOLUME, IN TERMS OF COMPACTNESS AND QUALITY OF PREPARATION METHODS SHALL CONFORM TO THE CONTRACTING AGENCY'S TECHNICAL SPECIFICATIONS FOR REINFORCED EARTH WALLS AND APPLICABLE AASHTO STANDARDS.
- SOIL PARAMETERS (TEMPORARY SURCHARGE WALLS):  
 SEE SPECIFICATIONS REGRAD.  
 $\phi = 34 \text{ deg}$ ,  $c = 6.7 \text{ kN/m}^2$   
 $\phi = 30 \text{ deg}$ ,  $c = 0.7 \text{ kN/m}^2$
- THE MAXIMUM FACTORED BEARING PRESSURE AT THE FOUNDATION LEVEL IS AS SHOWN ON THE WALL ELEVATIONS FOR EACH DESIGN CASE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THAT THIS FACTORED BEARING PRESSURE IS ALLOWABLE FOR THAT LOCATION.
- ANY UNDERLIE FROSTPROOF MATERIAL BEHIND THE REINFORCED EARTH VOLUME, AS DETERMINED BY THE ENGINEER, SHALL BE EXCAVATED AND REPLACED WITH DRAINAGE MATERIAL ON UNDERLIE STABILIZED AS DIRECTED BY THE ENGINEER.
- REINFORCING GEOTRELS FOR REINFORCED EARTH WALLS SHALL BE 47mm WIDE AND 3mm THICK, AND SHALL CONFORM TO THE PHYSICAL PROPERTIES OF GR-50/57AR AND MECHANICAL PROPERTIES OF ASTM D 682.
- WIRE FACINGS SHALL BE SHOP FABRICATED OF COLD DRAWN STEEL WIRE CONFORMING TO THE USANAL REQUIREMENTS OF ASTM A-62 (A620) IN 33 AND WELDED INTO THE FINISHED CONFIGURATION IN ACCORDANCE WITH ASTM A-182 (A450) W-50.
- THE REINFORCED EARTH WALL IS DESIGNED ASSUMING NO HYDROSTATIC PRESSURE. THE CONTRACTOR IS RESPONSIBLE TO DESIGN A PROPER DRAINAGE COLLECTION SYSTEM AROUND THE FACE STRUCTURE TO AVOID SEEPAGE INTO THE STRUCTURE AND FROST OF SOIL.
- NOT USED.

### WALL CONSTRUCTION

- REINFORCED EARTH WALLS IN CURVES WILL FORM A SERIES OF SHORT CHORDS OF 3m EACH TO MATCH DESIGNED WALL ALIGNMENT.
- FOR LOCATION AND ALIGNMENT OF REINFORCED EARTH WALLS, SEE PLAN VIEW - SHEET Nos. 3 & 4 AND CONTRACT PLANS FOR ANY ADDITIONAL LAYOUT INFORMATION.
- IF MANHOLES AND GROUND LEVELS ARE PRESENT, THEY SHALL BE LOCATED AS SHOWN ON WALL ELEVATIONS.

- IF PILES ARE LOCATED WITHIN THE REINFORCED EARTH VOLUME, THEY SHALL BE OWNED FROM TO CONSTRUCTION OF THE REINFORCED EARTH WALL UNLESS A METHOD TO PROTECT THE STRUCTURE, WHICH IS ACCEPTABLE TO THE ENGINEER AND THE REINFORCED EARTH COMPANY, AND IS PROPOSED AND APPROVED IN WRITING.
- BACKFILL MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR REINFORCED EARTH WALLS. GEOTRELS SHOULD BE FLAT (EMBEDDED IN THE COMPACTED SURFACE) AND FLEET & ANCHORED TIGHT FROM TO BACKFILLING OPERATOR, FROM MIN. OF BACKFILL REQUIRED BETWEEN GEOTRELS AND ANY CONSTRUCTION EQUIPMENT.

- COMPACTOR AND OPERATOR EQUIPMENT SHALL BE WITH A MINIMUM DISTANCE OF 1m FROM THE BACK FACE OF THE WIRE FACINGS. COMPACTOR WITHIN 1m OF THE WIRE FACINGS SHALL BE ACHIEVED WITH AT LEAST THREE (3) PASSES OF A LIGHTWEIGHT MECHANICAL SHAVER ROLLER OR VIBRATORY SYSTEM. THE MAXIMUM LEFT TYPING AFTER COMPACTOR SHALL NOT EXCEED 25mm. NO SLOTTING IS REQUIRED BY THE CODE.
- IF EXISTING OR FUTURE STRUCTURES, PILES, FOUNDATIONS OR CORNER POSTS (ROCK) ARE WITHIN THE REINFORCED EARTH VOLUME INTERFERE WITH THE NORMAL PLACEMENT OF SOIL REINFORCERS AND SPECIAL DIRECTOR HAS NOT BEEN PROVIDED ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE DESIGNER TO DETERMINE WHAT COURSE OF ACTION SHOULD BE TAKEN.

- THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING STORM WATER DRAINAGE. IN THE VICINITY OF THE WALL BEHIND CONSTRUCTION, STORM WATER RUNOFF IS TO BE COLLECTED AND DISCHARGED AWAY FROM THE WALL AND REINFORCED BACKFILL.

### MATERIALS NOTES

- NOTE TO CONTRACTOR:  
 ONLY THE FOLLOWING MATERIALS ARE SUPPLIED BY THE REINFORCED EARTH COMPANY:  
 - PREFABRICATED TYPE "L" WIRE FACING (BLACK)  
 - GEOTREL® REINFORCERS  
 - WIRE SINKS (BLACK)  
 - SOIL REINFORCING FABRIC

- ANY OTHER MATERIALS CALLED FOR IN THE CONTRACT PLANS OR SPECIFICATIONS ARE TO BE SUPPLIED BY THE CONTRACTOR.
- THE REINFORCED EARTH COMPANY SUPPLIES WIRE FACINGS AND ACCESSORIES TO BE USED IN CONJUNCTION WITH OTHER MATERIALS IN THE CONSTRUCTION OF THE REINFORCED EARTH RETAINING WALLS DESCRIBED HEREIN. THE WALL CONSTRUCTION PROCEDURES FURNISHED BY THE REINFORCED EARTH COMPANY IN ITS SPECIFICATIONS ARE INTENDED TO PROVIDE A GENERAL EXPLANATION OF THE SYSTEM. IT IS THE CONTRACTOR'S OBLIGATION TO OBTAIN AND OBTAIN ALL PROJECT SPECIFIC INFORMATION, INCLUDING UNDERSTANDING OF THE SYSTEM. IT IS THE CONTRACTOR'S OBLIGATION TO OBTAIN AND OBTAIN ALL PROJECT SPECIFIC INFORMATION, INCLUDING UNDERSTANDING OF THE SYSTEM. IT IS THE CONTRACTOR'S OBLIGATION TO OBTAIN AND OBTAIN ALL PROJECT SPECIFIC INFORMATION, INCLUDING UNDERSTANDING OF THE SYSTEM.

- THE DESIGN CONTAINED ON THESE DRAWINGS IS BASED ON INFORMATION PROVIDED BY THE CONTRACTOR OR THE BASIS OF THE INFORMATION, THE REINFORCED EARTH COMPANY IS RESPONSIBLE FOR INTERNAL STABILITY OF THE STRUCTURE ONLY. EXTERNAL STABILITY (INCLUDING FOUNDATION AND SLOPE STABILITY) IS THE RESPONSIBILITY OF CONTRACTOR.

THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO THE REINFORCED EARTH COMPANY AND IS BEING FURNISHED FOR THE USE IN CONNECTION WITH THIS PROJECT ONLY. AND THE INFORMATION CONTAINED HEREIN IS NOT TO BE TRANSMITTED TO ANY OTHER ORGANIZATION UNLESS SPECIFICALLY AUTHORIZED IN WRITING BY THE REINFORCED EARTH COMPANY. THE REINFORCED EARTH COMPANY IS EXCLUSIVE LICENSEE IN THE UNITED STATES UNDER PATENTS ISSUED TO HENRY DIAL, AND THE INVENTORS OF THIS DRAWING DOES NOT CONSTITUTE AN EXPRESSED OR IMPLIED LICENSE UNDER THE VTD PATENTS.

RECEIVED

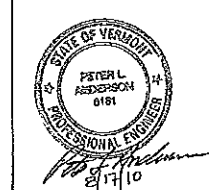
CK'D BY: *LL* CHECKED: *RSF*

AUG 19 2010

RESUBMIT APPROVED

BY: *CPW* DATE: *8/26/10*

GENERAL NOTE REFLECT TO THE INTERNAL STABILITY OF REINFORCED EARTH STRUCTURES ONLY



REINFORCED EARTH COMPANY, 1000 W. 10th Street, North Platte, NE 68901

This drawing contains information proprietary to the Reinforced Earth Company, and is being furnished for the use of VERMONT AGENCY OF TRANSPORTATION only in connection with this project, and the information contained on and to be transmitted to any other organization unless specifically authorized in writing by the Reinforced Earth Company. The Reinforced Earth Company is exclusive licensee in the United States under patents issued to Henry Dial, and the inventors of this drawing does not constitute an expressed or implied license under the Vtd patents.	The design contained on these drawings is based on information provided by the owner. On the basis of this information, the Reinforced Earth Company has designed, and is responsible for the internal stability of the structure only. External stability, including foundation (bearing capacity and settlement) and slope stability (sliding and rotation), is the responsibility of the owner.	DESIGNED BY: MS	PROJECT DATE: 8/16/10	PROJECT NAME: VT ROUTE 107, BRIDGE 9	DATE: 07/16/2010
		CHECKED BY: LY	REVISIONS: 1	LOCATION: STOCKBRIDGE, VERMONT	CONTRACT NO: RE-14697
REINFORCED EARTH® is the registered trademark of the Reinforced Earth Company.		REV: DATE: DESCRIPTION:	OWNER: VERMONT AGENCY OF TRANSPORTATION	DRAWING NO: 2 OF 16	SCALE: AS SHOWN