



REINFORCED EARTH®

8614 Westwood Center Drive, Vienna, VA 22182 (703)821-1175

MECHANICALLY STABILIZED EARTH RETAINING WALLS

GENERAL NOTES

DESIGN CRITERIA

- DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE REINFORCED EARTH VOLUME, METHODS OF CONSTRUCTION AND QUALITY OF PREFABRICATED MATERIALS SHALL CONFORM TO PROJECT SPECIAL PROVISIONS FOR REINFORCED EARTH WALLS.
- SOLS CHARACTERISTICS FOR DESIGN AS PER CONTRACT SPECIFICATIONS ITEM NO. 65. SELECT GRANULAR BACKFILL.
 $\phi = 34 \text{ degrees}$, $c = 0 \text{ p.s.f.}$, $\gamma = 22 \text{ kN/m}^3$

FOUNDATION MATERIAL

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WALL CONSTRUCTION (CONT.)

- COMPACTOR AND OPERATION EQUIPMENT SHALL BE KEPT A MINIMUM DISTANCE OF 1.0M FROM THE BACK FACE OF THE REINFORCED EARTH PANELS. COMPACTOR WITHIN 5M OF THE REINFORCED EARTH PANELS SHALL BE ACHIEVED WITH AT LEAST THREE (3) PASSES OF A LIGHTWEIGHT MECHANICAL TAMPING ROLLER OR VIBRATORY SYSTEM. NO COMPACTOR DENSITY TESTS SHALL BE TAKEN WITHIN THE 1.0M ZONE.
- IF STRUCTURES IN EXCESS OF 6M IN HEIGHT OCCUR, THE FINISHED GRADE IN FRONT OF THE WALL SHALL BE PLACED AND COMPACTED BEFORE WALL CONSTRUCTION EXCEEDS A HEIGHT OF 6M. FINISHED GRADE BACKFILL SHALL BE COMPACTED TO JOB OF JOHN II BINS, METHODS "C" OR "D", UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- IF EXISTING OR FUTURE STRUCTURES, PIPES, FOUNDATIONS OR SUBSURAL POLES CROSS WITHIN THE REINFORCED EARTH VOLUME INTERFERE WITH THE NORMAL PLACEMENT OF REINFORCING STRIPS AND SPECIFIC COURSES OF ACTION SHALL BE TAKEN.
- ALL DETAILING AND CHECKING OF REINFORCING STEEL FOR ANY C.A.P. CONCRETE WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.

MATERIALS NOTES (CONT.)

- SELECT BACKFILL QUANTITY, IF INDICATED BY THE REINFORCED EARTH COMPANY, IS CALCULATED BY MULTIPLYING THE NORMAL STRIP LENGTHS SHOWN ON THE PLANS BY THEIR TRIANGULAR WALL SURFACE AREA AND IS NOT INTENDED TO REPRESENT THE ACTUAL QUANTITIES REQUIRED TO COMPLETE THE WORK. THE CONTRACTOR MUST CALCULATE HIS OWN QUANTITIES AND BACKFILL QUANTITIES BASED UPON THE SPECIFIC CONDITIONS OF THE PROJECT.
- PANEL FRAMES AND COVER ELEMENTS FOR REINFORCED EARTH WALLS SHALL HAVE A SMOOTH FORM FLOOR. PRECAST COVER UNITS SHALL HAVE A PLAN FINISH.
- ONLY THE FOLLOWING MATERIALS ARE SUPPLIED BY THE REINFORCED EARTH COMPANY:
 - PRECAST CONCRETE FACING PANELS
 - REINFORCING STRIPS
 - DOCK SETS (FOR ATTACHING PANELS TO THE REINFORCING STRIPS)
 - RUBBER SHEETS
 - PL UNIFORM AND ADHESIVE (FOR PANEL JOINTS ONLY)
 - PRECAST COPING UNITS
- ANY OTHER MATERIALS CALLED FOR IN THE CONTRACT PLANS OR SPECIFICATIONS ARE TO BE SUPPLIED BY THE CONTRACTOR. ANY JOINT MATERIALS SHOWN AT THE INTERFACE OF PRECAST PANELS AND CAST-IN-PLACE CONCRETE STRUCTURES ARE TO BE SUPPLIED BY THE ERECTION CONTRACTOR. ALL SANDPAPER, PLASTIC SEALING OR OTHER SPECIAL APPLIED COATINGS ARE ALSO SUPPLIED/INSTALLED BY THE CONTRACTOR IN THE FIELD FOLLOWING PANEL ERECTION.

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Structural Copy

RECEIVED
 OK'D BY: OK'D BY: RSK
 AJS 10 2010
 RESUBMIT APPROVED
 BY: CPW DATE: 8/26/10

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DESIGNED BY	MS	PROJECT NO.	VT ROUTE 107, BRIDGE 9	DATE	07/16/2010
CHECKED BY	LY	LOCATION	STOCKBRIDGE, VERMONT	CONTRACT NO.	RE-14697
DATE	8/16/10	OWNER	VERMONT AGENCY OF TRANSPORTATION	DRAWING NO.	1 OF 16
REV	DATE	DESCRIPTION	GENERAL NOTES (1 OF 2)	SCALE	AS SHOWN