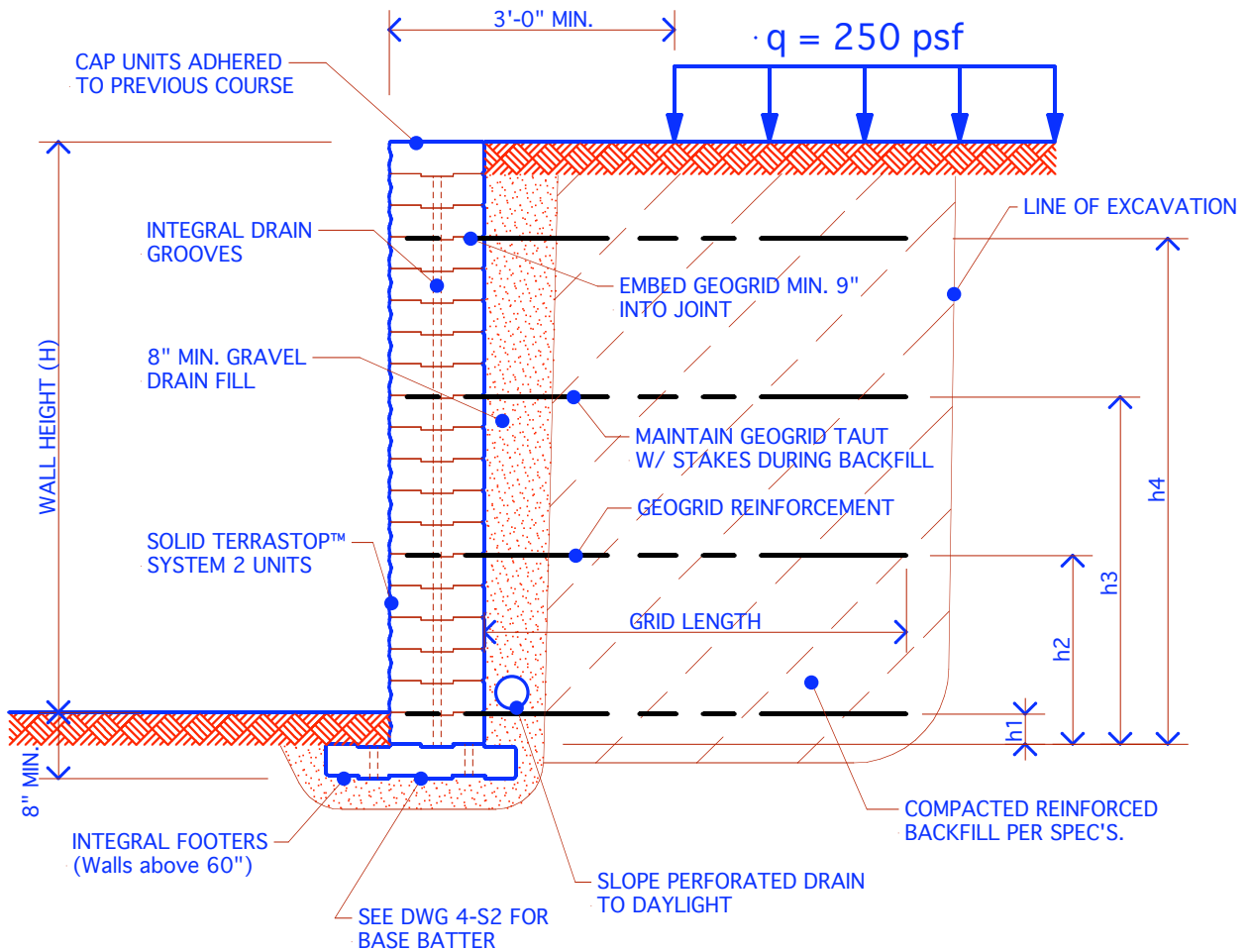


# WALL REINFORCEMENT MATRIX - CASE B<sup>(1)</sup>

MAX. WALL Height (ft)	BASE DEPTH (ft.)	NO. GRID LAYERS	TOP GRID LENGTH (ft.) <sup>*</sup>	GEOGRID PLACEMENT h (ft.) above base elevation					* NOTE
				h1	h2	h3	h4	h5	
4'-0"	0'-8"	2	4'-6"	1'-4"	3'-0"	—	—	—	LAYER LENGTH MAY DECREASE 6" PER SUCCEEDING LAYER FROM TOP TO BOTTOM.
5'-4"	0'-8"	3	5'-6"	1'-4"	2'-8"	4'-4"	—	—	
6'-0"	0'-8"	3	6'-6"	1'-8"	3'-4"	5'-0"	—	—	
7'-4"	1'-4"	4	7'-6"	0'-8"	2'-4"	4'-4"	6'-4"	—	
8'-0"	1'-4"	5	8'-6"	0'-8"	2'-0"	3'-4"	4'-8"	7'-0"	

(1) CASE B: SOIL SURCHARGE (q) OF 250 PSF, FOR SITE SOILS WITH ANGLE  $\phi > 27^\circ$  AND SOIL SATURATED UNIT WEIGHT OF LESS THAN 125 PCF.



**NOTES:**

1. Sample design for preliminary estimating only, based on 80 mil polyester geogrid with tensile strength of 1600 lb/ft; for polyethylene grids, adjust design per grid properties.
2. Analysis of global stability not included here, and should be part of final design by qualified structural engineer.
3. Minimum safety factors to be used for final design should be: 1.5 for tension, 1.5 for external sliding and 2.0 for overturning.
4. Final design must consider actual soil type and conditions.
5. For taller applications wall batter or setbacks may be required; Detailed analysis of global stability is mandatory.

## REINFORCED SECTION - case B

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<b>WALL ANGLE 0°</b>		250 PSF SURCHARGE	
<b>TERRASTOP™ SYSTEM 2</b>			
RAPID BUILDING SYSTEMS		P.O. Box 3335 Reston, VA 20195 - USA	
SCALE:	NONE	PROJECT:	99601
DRAWN:	rp	DESIGN:	JP
		DATE:	6-01
			<b>6-S2</b>