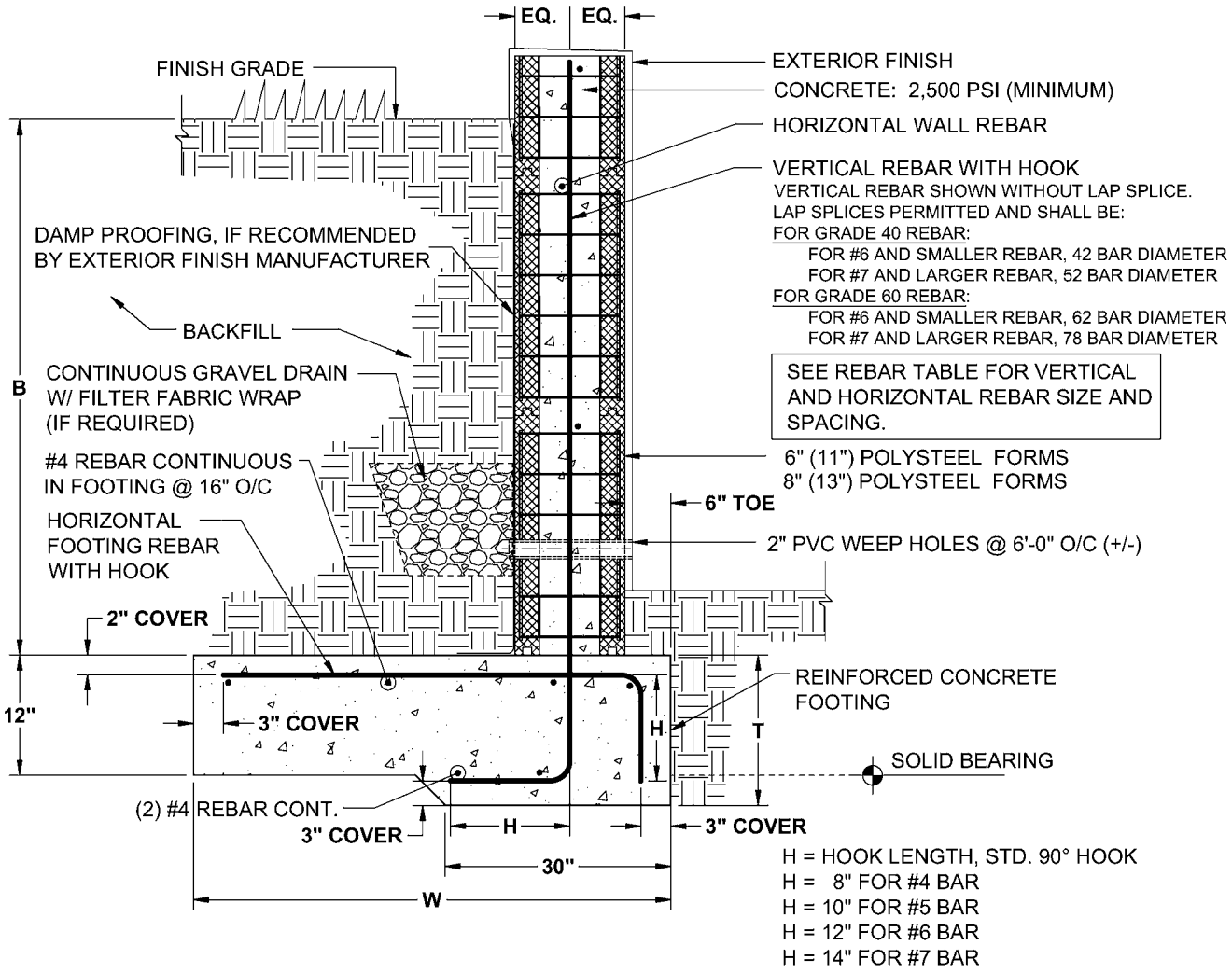
TABLE G-1
POLYSTEEL PS-4000 RETAINING WALL REBAR



Retaining Wall Section
w/ Vertical Rebar Centered in Wall

TABLE G-1

POLYSTEEL PS-4000 RETAINING WALL REBAR

FORM SIZE	Equivalent Fluid Pressure of Backfill	Backfill Height (ft) B	Width of Base (ft) W	Grade 40			Grade 60		
				Vertical Rebar in Wall	Thickness of Base @ Toe T	Horizontal Rebar in Footing	Vertical Rebar in Wall	Thickness of Base @ Toe T	Horizontal Rebar in Footing
6" FORMS PS-4600	30 pcf	4	3.0	#4 @ 24"	12"	#4 @ 24"	#4 @ 24"	12"	#4 @ 24"
		5	3.75	#4 @ 18"	12"	#4 @ 24"	#4 @ 24"	12"	#4 @ 24"
		6	4.25	#4 @ 12"	12"	#4 @ 24"	#4 @ 18"	12"	#4 @ 24"
	45 pcf	4	4.5	#4 @ 24"	12"	#4 @ 24"	#4 @ 24"	12"	#4 @ 24"
		5	5.25	#4 @ 12"	12"	#4 @ 24"	#4 @ 18"	12"	#4 @ 24"
		6	6.25	#4 @ 7"	12"	#4 @ 12"	#4 @ 11"	12"	#4 @ 24"
	60 pcf	4	5.75	#4 @ 18"	12"	#4 @ 24"	#4 @ 24"	12"	#4 @ 24"
		5	7.0	#4 @ 10"	12"	#4 @ 24"	#4 @ 15"	12"	#4 @ 24"
		6	7.75	#5 @ 9"	12"	#4 @ 12"	#5 @ 13"	14"	#4 @ 24"
8" FORMS PS-4800	30 pcf	4	3.0	#4 @ 24"	12"	#4 @ 24"	#4 @ 24"	12"	#4 @ 24"
		5	3.5	#4 @ 24"	12"	#4 @ 24"	#4 @ 24"	12"	#4 @ 24"
		6	4.0	#4 @ 16"	12"	#4 @ 24"	#4 @ 18"	12"	#4 @ 24"
		7	4.5	#4 @ 10"	12"	#4 @ 12"	#4 @ 14"	12"	#4 @ 12"
		8	5.25	#5 @ 10"	12"	#4 @ 12"	#5 @ 15"	14"	#4 @ 12"
	45 pcf	4	4.0	#4 @ 24"	12"	#4 @ 24"	#4 @ 24"	12"	#4 @ 24"
		5	5.0	#4 @ 18"	12"	#4 @ 24"	#4 @ 24"	12"	#4 @ 24"
		6	6.0	#4 @ 10"	12"	#4 @ 12"	#4 @ 16"	12"	#4 @ 24"
		7	6.75	#5 @ 10"	12"	#4 @ 12"	#5 @ 15"	14"	#4 @ 12"
		8	7.75	#6 @ 10"	12"	#5 @ 12"	#6 @ 14"	16"	#4 @ 12"
	60 pcf	4	5.25	#4 @ 24"	12"	#4 @ 24"	#4 @ 24"	12"	#4 @ 24"
		5	6.5	#4 @ 14"	12"	#4 @ 24"	#4 @ 18"	12"	#4 @ 24"
		6	7.75	#5 @ 12"	12"	#4 @ 12"	#5 @ 18"	14"	#4 @ 24"
		7	9.0	#6 @ 10"	12"	#5 @ 12"	#6 @ 15"	16"	#4 @ 12"
		8	10.25	#7 @ 9"	14"	#6 @ 12"	#7 @ 13"	18"	#5 @ 12"

Notes:

1. Table assumes vertical wall rebar is placed in the **center** of the retaining wall.
2. Minimum horizontal rebar requirements for the wall are #4 horizontally at 48"
3. Footing thickness "T" varies at toe to accommodate the development length of a standard 90 degree hook.
4. Horizontal rebar in footing is based on a minimum footing thickness of 12".
5. See previous page for construction details.
6. Other Assumptions

• 2,500 psi concrete (minimum)	• Sliding coefficient = 0.35
• Sliding Safety Factor = 1.5	• "Toe" dimension = 6 inches
• Soil density = 110 pcf	• Ignores Passive Pressure
• Soil bearing capacity = 2,000 psf	

7. The assumptions used to develop this table are conservative.
8. Design review by the project's structural engineer using other assumptions such as: positioning the vertical rebar in the wall closer to the backfill side of the wall; higher compressive strength concrete; higher strength rebar; or considering passive pressure or adding a key to resist sliding; could result in a more economical design