

MASONRY WALL DESIGN

Partial Height CMU Wall in Shop Battery Storage (Cantilevered 12' tall--Approximate with 24' tall pinned wall)

General Input

Wall Ht:	24.00 ft	Reinforcing Steel	
Wall L:	16.00 ft	Tension Side:	#5 @ 32 in o.c.
Wall t:	8" CMU	Compression Side:	
f'm:	2000 psi	Horizontals:	#5 @ 48 in o.c.
Fy:	60 ksi	Double Mat of Reinforcing:	N
Cover:	3.00 in	Solid Grouted:	Y
		Special Reinforced Shearwall:	N
		Sds:	0.59

Distributed Loads

	W2	W1	Wh
Soil			
Live			
Wind	5 psf	5 psf	24.00 ft
Seismic	20 psf	20 psf	24.00 ft

Vertical Loads

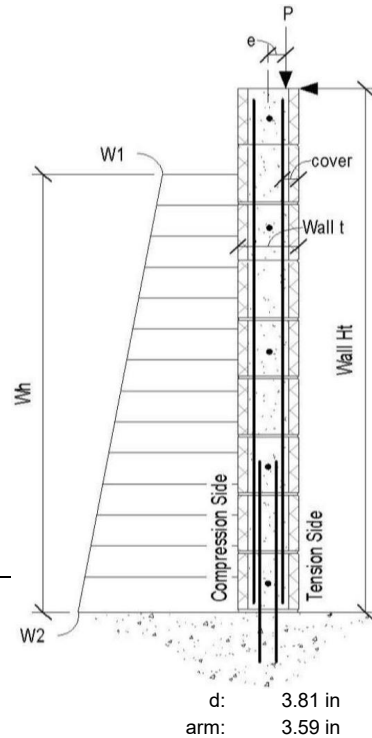
	P	e
Dead	0 plf	-8.00 in
Live		
Roof/Snow	0 plf	-8.00 in

Analysis Results

Reactions	Top	Bottom
Soil	0.0 k/ft	0.0 k/ft
Live	0.0 k/ft	0.0 k/ft
Wind	0.1 k/ft	0.1 k/ft
Seismic	0.2 k/ft	0.2 k/ft

Factored Design Loads

Mu:	1.4 k-ft/ft
Vu:	0.2 k/ft
Pu:	0.0 k/ft



0.000 DESIGN SUMMARY TABLES

Status	Design Limit State	Governing Load Comb.	Demand	Capacity	Interaction
OK	Maximum Axial Stress		0 psi	100 psi	0.00
OK	Flexural Capacity	(1.2+.2Sds)D+E+L+0.2S	1.4 k-ft/ft	2.3 k-ft/ft	0.63
OK	Axial Load Capacity	1.4D	0.0 k/ft	31.5 k/ft	0.00
OK	Shear Capacity	1.2D+E	0.2 k/ft	8.5 k/ft	0.03
OK	Deflection	(1.0+.14Sds)D+0.7E	0.13 in	2.02 in	0.06
OK	Minimum Vertical Reinforcing		0.06 in^2/ft	0.12 in^2/ft	0.55
OK	Minimum Horizontal Reinforcing		0.06 in^2/ft	0.08 in^2/ft	0.83