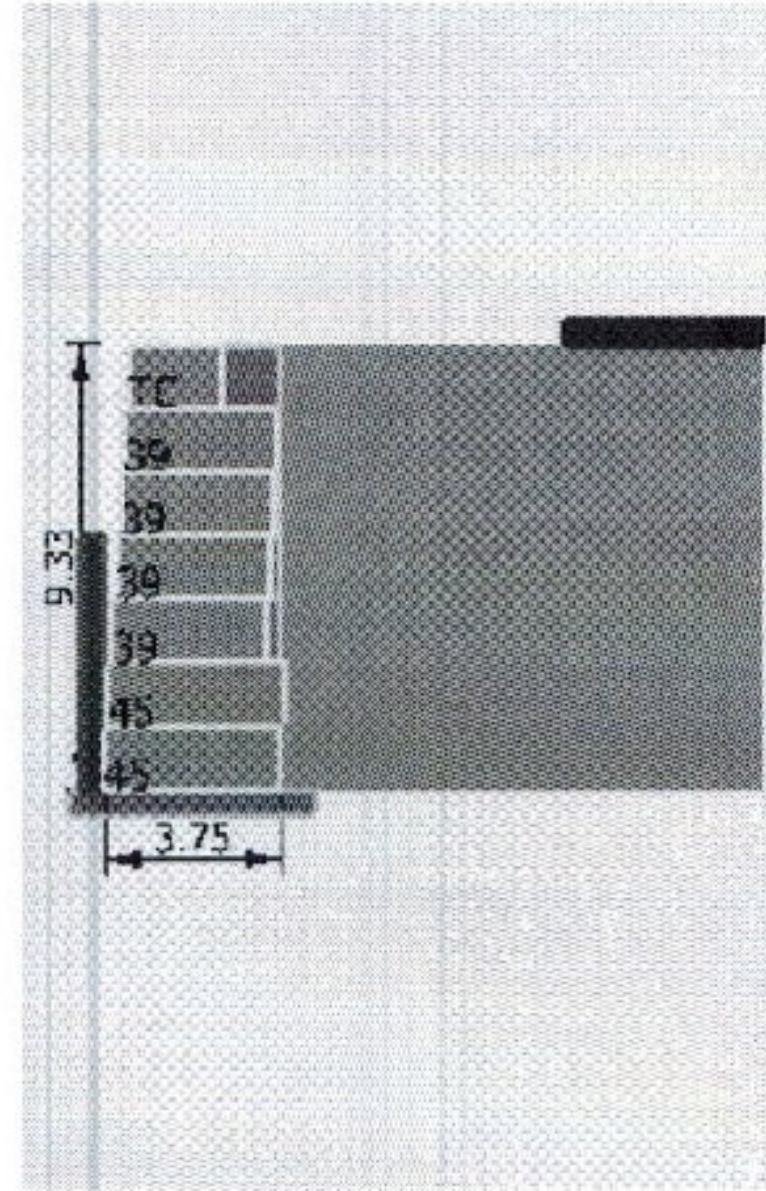
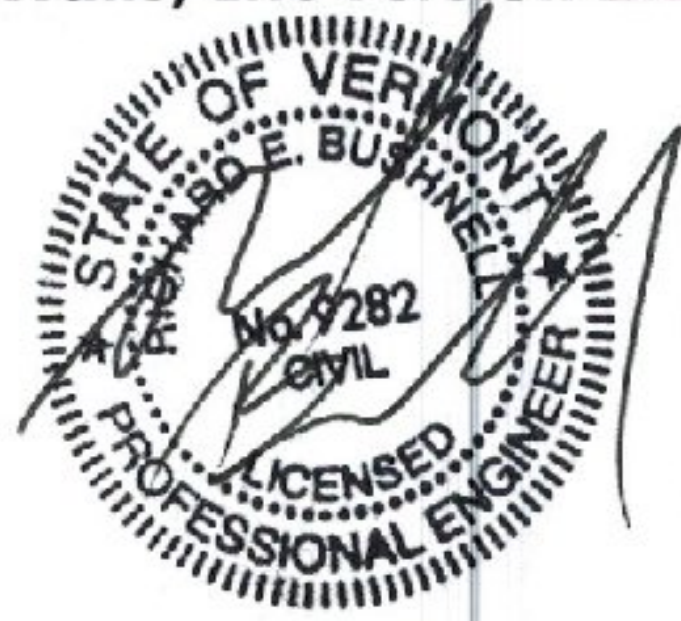


**ReCon Walls**  
ReCon Retaining Walls, Inc version 2.1



Project: Jamaica - ER-BRF 013-1(16)  
Location: Jamaica, Vermont  
Designer: R&M Engineering Consultants  
Date: 5/2/2013

Section: Section 2  
Design Method: AASHTO\_LRFD  
Seismic Acc: 0.120

SOIL PARAMETERS  
Retained Soil: **34 deg** Phi, 0 psf coh, **140 pcf** Gamma  
Foundation Soil: 32 deg Phi, 0 psf coh, 125 pcf Gamma

Leveling Pad: Crushed Stone

GEOMETRY  
Design Height: 9.33 ft Live Load: 280 psf  
Wall Batter/Tilt: 3.58/ 0.00 deg Live Load Offset: 6.00 ft  
Embedment: 5.33 ft Live Load Width: 24 ft  
Leveling Pad Depth: 0.50 ft Dead Load: 0 psf  
Slope Angle: 0 deg Dead Load Offset: 0 ft  
Slope Length: 0 ft Dead Load Width: 0 ft  
Slope Toe Offset: 0 ft Leveling Pad Width: 4.75 ft

LOAD FACTORS

Load Case:	Str max(d)	Str min(r)	Seis max(sd)	Seis min(sr)	Service(serv)
Dead Load (DC)	1.25	0.90	1.25	0.90	1.00
Dead Load Driving (EH)	1.50	0.90	1.50	0.90	1.00
Vertical Earth load (EV)	1.35	1.00	1.35	1.00	1.00
Live Load (LL, PL, LS)	1.75	0.00	0.50	0.00	1.00

RESISTANCE FACTORS

Resistance Case:	Reduction Factor
Bearing Resistance(RFbr)	0.45
Sliding Concrete to Stone(RFsl_c)	0.90
Sliding Stone to Soil(RFsl_s)	0.90

RESULTS (Static / Seismic)  
CDR Sliding: 1.41 (fnd) / 1.11 CDR Bearing: 4.25 / 4.25  
CDR Eccentricity: L/ 4.27 / L/ 5.18 Bearing: 2381.45 / 157.00

Name	Elev.	FSsl	L/e	siesFSsl	Seis L/e
TC	8.00	148.42	80.81	81.72	134.90
39	6.67	39.49	39.46	23.26	37.18
39	5.33	18.29	15.46	12.03	14.98
39	4.00	10.65	8.15	7.44	7.99
39	2.67	7.04	4.99	5.11	4.93
45	1.33	4.92	6.77	3.70	8.04
45	0.00	1.44	4.27	1.11	5.18