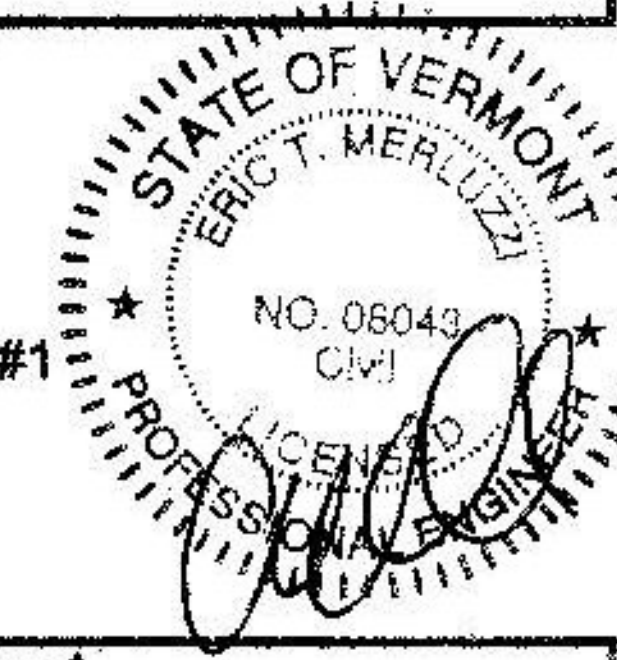


ERIC MERLUZZI, P.E.

WALL STA. 0+50, 7.5' HT, 6' WIDE SWALE TO 2H:1V SLOPE ABOVE REVISION #1

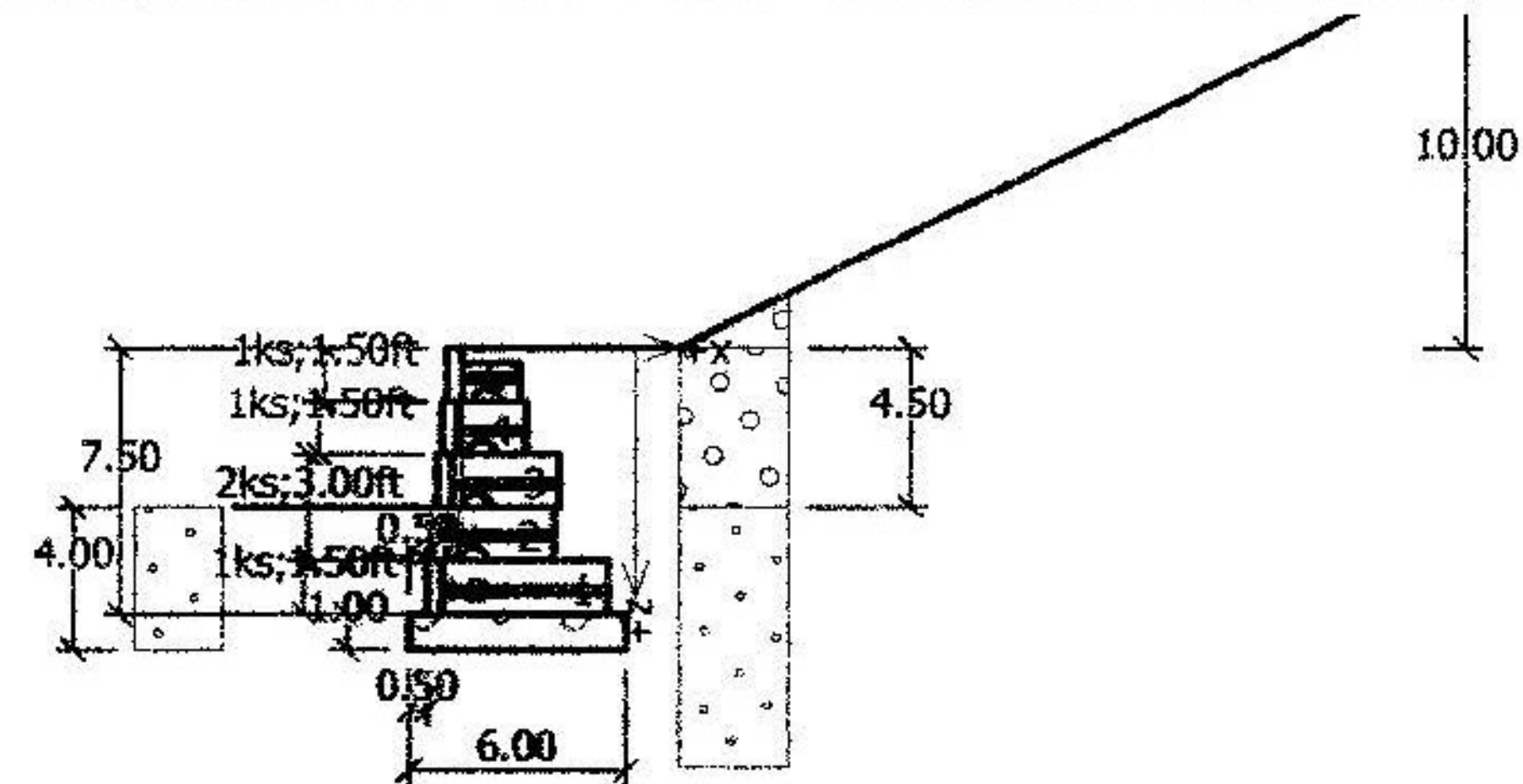
Analysis of Redi Rock wall**Input data****Project**

Part : WALL STA. 0+50, 7.5' HT, 6' WIDE SWALE TO 2H:1V SLOPE ABOVE REVISION #1
Descript. : RICHMOND CMG PARK (31)
Author : ERIC MERLUZZI, P.E.
Customer : REDI-ROCK WALLS OF NEW ENGLAND
Date : 12/12/2013



Name : Project

Stage : 1

**Settings**

(input for current task)

Wall analysis

Active earth pressure calculation : Coulomb
Passive earth pressure calculation : Caquot-Kerisel
Earthquake analysis : Mononobe-Okabe
Shape of earth wedge : Calculate as skew
Reduction coeff. of contact first block - base : 0.80
Verification methodology : according to LRFD

Partial factors on loads (L)			
Permanent design situation			
		Favourable	Unfavourable
Dead load of structural components :	DC =	0.90 [-]	1.25 [-]
Dead load of wearing surfaces :	DW =	0.65 [-]	1.35 [-]
Earth pressure load :	EH =	0.90 [-]	1.50 [-]
Earth surcharge load (permanent) :	ES =	0.75 [-]	1.50 [-]
Vertical pressure of earth fill :	EV =	1.00 [-]	1.35 [-]
Live load surcharge :	LS =	0.00 [-]	1.75 [-]
Water load :	WA =	1.00 [-]	1.00 [-]

Partial factors for resistances (R)			
Permanent design situation			
Partial factor on overturning :	γ_{Re} =	0.90 [-]	
Partial factor on sliding resistance :	γ_{Rh} =	0.80 [-]	