

Austin Gisi
Eagle Scout Service Project Proposal:

Ruth Asawa School of the Arts
Erosion Control and Beautification Project



Problem **(Before)**

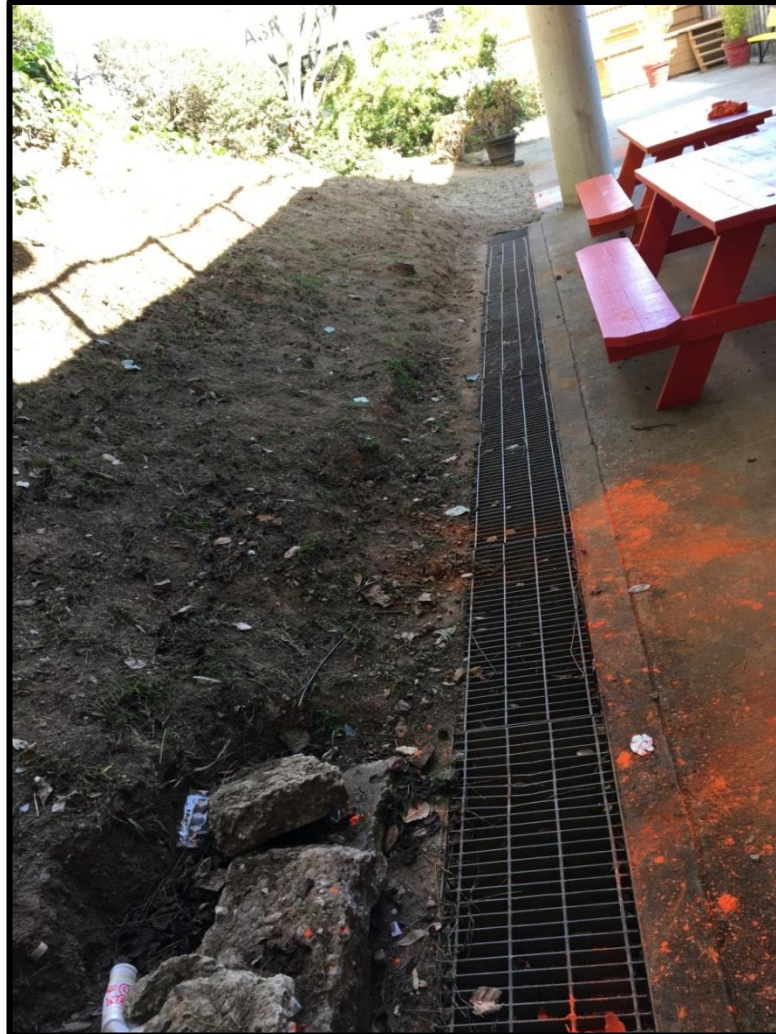
Hill Erosion



Hill Erosion



Drainage System



Past Attempt



Solution

(After)

- i. Build Erosion Controlling Retaining Wall
- ii. Add Erosion Control Netting to hill
- iii. Add top soil
- iv. Clean Drainage System

Example Wall Type



Wall Composition



Measure & Mark



Tamper Dirt



Tamper Paver Base Gravel



Level

Check Level



Stagger Bricks



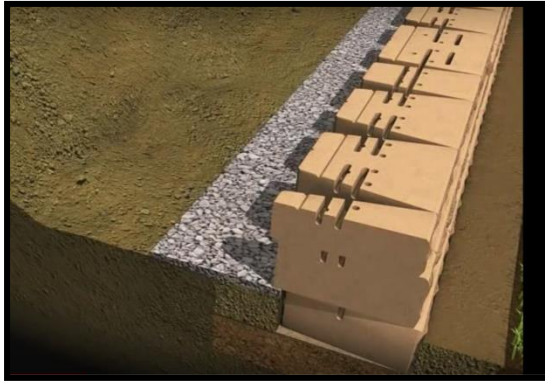
Stack Rows



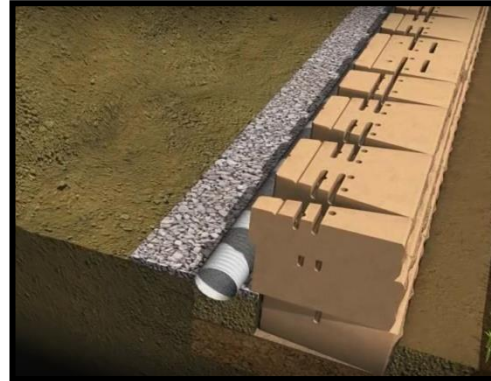
Add Top Soil

Wall Drainage

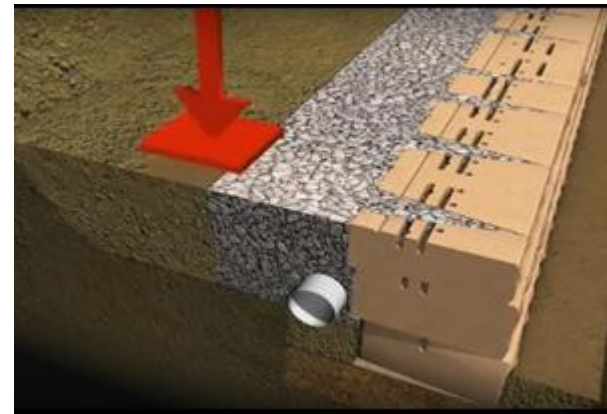
Drainage Gravel 1"



Drainage Proliferated Pipe

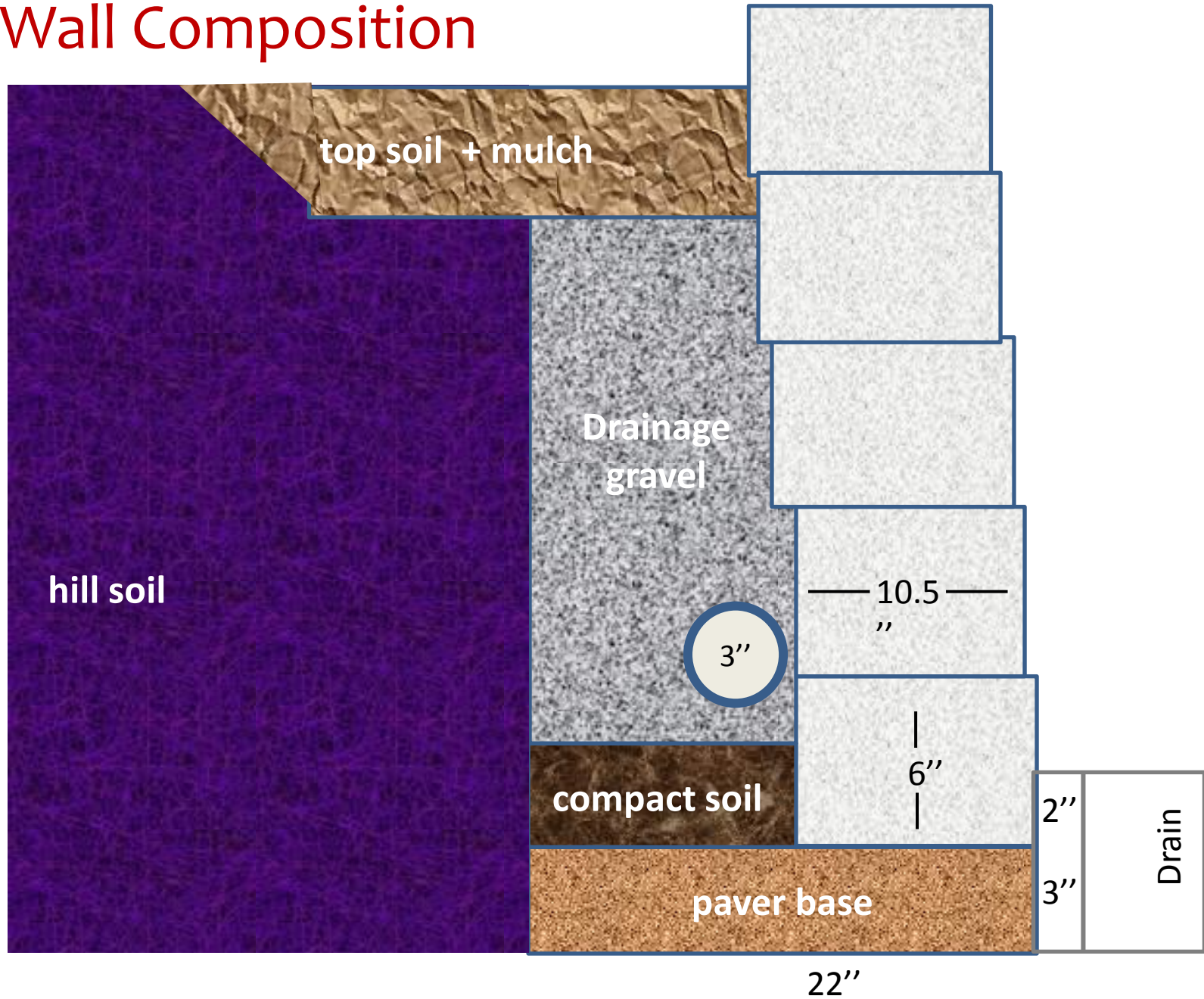


Drainage Gravel 12"x 14"



Compress Dirt & Rock

Wall Composition



Hill Jute Erosion Control Netting



Some Core Suppliers



16 in. Positano Concrete Estate Ashlar Retaining Wall

★★★★★ (3) [Write a Review](#) [Questions & Answers \(6\)](#)



SAKRETE >

0.5 cu. ft. Step 1 Patio Paver Base

★★★★★ (32) [Write a Review](#) [Questions & Answers \(54\)](#)

- 1 bag covers 0.5 cu. ft.
- Engineered to prevent cracking in colder climates
- Creates a coarse stone base that improves drainage

Model # 40100317 Internet #205153034 Store SKU #1000052246



1,100 lb. 3/4 in. Gravel/Crushed Rock

★★★★★ (60) [Write a Review](#) [Questions & Answers \(59\)](#)

- Each bag weights roughly 1,000 - 1,200 lbs.
- Designed to be used for back fill and ground cover
- Gravel/crushed rock and be added when mixing concrete

Model # 479497 Internet #100318376 Store SKU #479497



3 in. x 10 ft. Perforated Corex Drain Pipe

★★★★★ (6) [Write a Review](#) [Questions & Answers \(3\)](#)

\$7⁹⁷
/each

Model # 03010010 Internet #100576671 Store SKU #418051 Store SO SKU #1000675101



Materials Budget Estimate

Materials	Quantity	Cost/Unit	Total
Bricks	90	\$4.20	\$378.00
Wall caps	45	\$1.00	\$45.00
Drainage Pipe	3	\$10.34	\$31.02
Drain Sleeve	1	\$20.00	\$20.00
Pipe Connectors	2	\$2.50	\$5.00
Paver base gravel	11	\$3.33	\$36.63
Drainage gravel	4	\$25.00	\$100.00
Top soil	1	\$150.00	\$150.00
Glue Cement	3	\$7.00	\$21.00
Jute net erosion control	1	\$90.00	\$90.00
Transporation	1	\$99.00	\$99.00
			<u>\$975.65</u>





