

RETAINING WALL CALCULATIONS
FOR THE
WALKER RESIDENCE

APRIL, 2020



David J. Egarian, P.E.

License no. 24GE02622900

4 ft. Wall

SRWall (Version 4) Report**Project Identification**

Project ID : 19257
Project Name :
Owner : Walker
Client : Walker
Prepared By : David J. Egarian, P.E.
Company : DJ Egarian & Associates
Address : 271 Route 46 Fairfield NJ
Telephone : 973-898-1401
Section :
Project File : 7' retaining wall.prj
Vendor Data File :
Date and Time : 04/21/2020 15:04:53

Type of Structure : Reinforced Wall

Wall Geometry

Design Wall Height(ft) : 4.67
Embedment Wall Height(ft) : 0.73
Exposed Wall Design Height(ft) : 3.94
Number of Segmental Wall Units : 7
Wall Inclination(degrees) : 7.13

Grades

Top Slope(degrees) : 1.50

Uniform Distributed Surcharge

Live Load Surcharge(Psf) : 0.00
Dead Load Surcharge(Psf) : 0.00

Soil Data

Soil Zone	Description	Cohesion (c) (psf)	Friction Angle(Φ) (degrees)	Unit Weight (γ)(pcf)
Reinforced Soil	Sandy Loam	N/A	35.00	120.00
Retained Soil	Sandy Loam	N/A	32.00	120.00
Leveling Pad Soil	Crushed Stone	N/A	40.00	130.00
Foundation Soil	Silty Sand	0.00	32.00	120.00

Segmental Unit Data

Segmental Unit Name	: Square Foot
Cap Height (Inches)	: 2.00
Unit Height (Hu)(Inches)	: 8.00
Unit Width (Wu)(Inches)	: 12.00
Unit Length (Inches)	: 18.00
Setback (Inches)	: 1.00
Weight (Infilled)(lb)	: 115.00
Unit Weight (Infilled)(pcf)	: 115.00
Center of Gravity(Inches)	: 6.00

Geosynthetic Reinforcement Type and Number

Supplier	Product Name	Number
	VERSA-Grid VG 10.0	0
	VERSA-Grid VG 3.0	0
	VERSA-Grid VG 5.0	2
	VERSA-Grid VG 8.0	0

Geosynthetic Properties

Geosynthetic Product	Tult (lb/ft)	RFcr	RFd	RFid	LTDS (lb/ft)	Ci	Cds
VERSA-Grid VG 10.0	10205.00	1.57	1.10	1.05	5627.71	0.85	0.90
VERSA-Grid VG 3.0	3435.00	1.54	1.10	1.08	1877.54	0.80	0.80
VERSA-Grid VG 5.0	4200.00	1.54	1.10	1.05	2361.28	0.80	0.85
VERSA-Grid VG 8.0	7400.00	1.55	1.10	1.05	4133.50	0.85	0.90

Unit-Unit Interface Properties

Minimum Shear Capacity (lb/ft)	Shear Friction Angle	Maximum Shear Capacity (lb/ft)
1145.00	35.00	5350.00

Geosynthetic-SRW Unit Connection Strength properties

Geosynthetic Product	Minimum Conn. Capacity (lb/ft)	1st Inflection Point (lb/ft)		2nd Inflection Point (lb/ft)	
		Normal Load (lb/ft)	Connection Capacity (lb/ft)	Normal Load (lb/ft)	Max Connection Capacity (lb/ft)
VERSA-Grid VG 10.0	2000.00	667.00	2325.00	5444.00	4655.00
VERSA-Grid VG 3.0	923.00	360.00	967.00	1889.00	1155.00
VERSA-Grid VG 5.0	1437.00	502.00	1572.00	2549.00	2120.00
VERSA-Grid VG 8.0	1580.00	648.00	1882.00	3238.00	3090.00

Geosynthetic-SRW Unit Shear Strength properties

Geosynthetic Product	Minimum Shear Capacity (lb/ft)	Shear Friction Angle	Maximum Shear Capacity (lb/ft)
VERSA-Grid VG 10.0	1100.00	32.00	4540.00
VERSA-Grid VG 3.0	1100.00	32.00	4540.00
VERSA-Grid VG 5.0	1100.00	32.00	4540.00
VERSA-Grid VG 8.0	1100.00	32.00	4540.00

Vertical Components

Vertical Components of Earth Pressures Used : No

Coefficients of Earth Pressure and Failure Plane Orientation

Reinforcement Soil(Static)(Ka)	: 0.200
Reinforcement Soil(Static)(Kah Horizontal Component)	: 0.192
Internal Modified Back Slope(Bint)	: 1.500
Orientation of failure plane from horizontal(degrees) for Internal Stability	: 56.000
Retained Soil(Static)(Ka)	: 0.230
Retained Soil(Static)(Kah Horizontal Component)	: 0.209
External Modified Back Slope(Bext)	: 1.500
Orientation of failure plane from horizontal(degrees) for External Stability	: 53.005

Result of External Stability Static Analysis

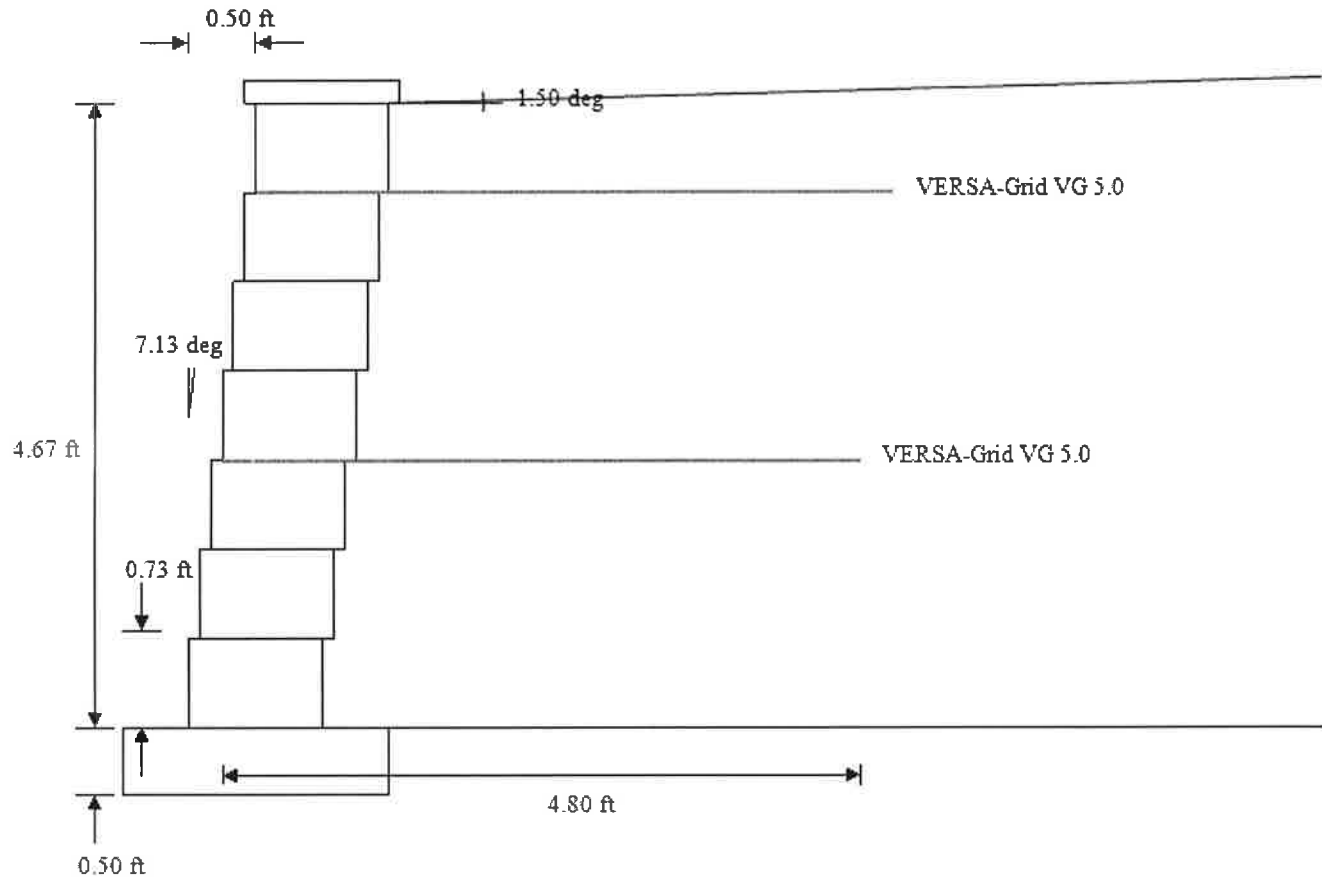
	Calculated	Design Criteria
FOS Sliding	5.97	> 1.50
FOS Overturning	16.00	> 2.00
FOS Bearing Capacity	19.00	> 2.00
Base Reinforcement Length (L)(ft)	4.80	
Base Reinforcement Ratio (L/H)	1.03	> 0.60

Results of Internal Stability Static Analysis

SRW Unit #	Geosynthetic Product	Elevation (ft)	Length (ft)	Anchor Length (ft)	FOS Overstress ≥ 1.50	FOS Pullout ≥ 1.50	FOS Slide ≥ 1.50	Layer Spacing (ft) ≥ 2.00
7	VERSA-Grid VG 5.0	4.00	4.80	1.60	73.64	4.99	182.85	OK
4	VERSA-Grid VG 5.0	2.00	4.80	2.70	10.77	4.51	21.21	OK

Results of Facing Stability Static Analysis

SRW Unit #	Heel Elev (ft)	Geosynthetic Product	FOS Crest Toppling ≥ 1.50	FOS Connection ≥ 1.50
7	4.00	VERSA-Grid VG 5.0	33.62	45.46
4	2.00	VERSA-Grid VG 5.0		6.93

Wall Reinforcement Layout**Project Identification**

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Address	: 271 Route 46 Fairfield NJ
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Section	:
Vendor Data File	:
Project File	: 7' retaining wall.prj
Date and Time	: 04/21/2020 15:04:53

5 ft. Wall

SRWall (Version 4) Report**Project Identification**

Project ID : 19257
Project Name :
Owner : Walker
Client : Walker
Prepared By : David J. Egarian, P.E.
Company : DJ Egarian & Associates
Address : 271 Route 46 Fairfield NJ
Telephone : 973-898-1401
Section :
Project File : 7' retaining wall.prj
Vendor Data File :
Date and Time : 04/21/2020 15:04:53

Type of Structure : Reinforced Wall

Wall Geometry

Design Wall Height(ft) : 6.00
Embedment Wall Height(ft) : 0.73
Exposed Wall Design Height(ft) : 5.27
Number of Segmental Wall Units : 9
Wall Inclination(degrees) : 7.13

Grades

Top Slope(degrees) : 1.50

Uniform Distributed Surcharge

Live Load Surcharge(Psf) : 0.00
Dead Load Surcharge(Psf) : 0.00

Soil Data

Soil Zone	Description	Cohesion (c) (psf)	Friction Angle(Φ) (degrees)	Unit Weight (γ)(pcf)
Reinforced Soil	Sandy Loam	N/A	35.00	120.00
Retained Soil	Sandy Loam	N/A	32.00	120.00
Leveling Pad Soil	Crushed Stone	N/A	40.00	130.00
Foundation Soil	Silty Sand	0.00	32.00	120.00

Segmental Unit Data

Segmental Unit Name	: Square Foot
Cap Height (Inches)	: 2.00
Unit Height (Hu)(Inches)	: 8.00
Unit Width (Wu)(Inches)	: 12.00
Unit Length (Inches)	: 18.00
Setback (Inches)	: 1.00
Weight (Infilled)(lb)	: 115.00
Unit Weight (Infilled)(pcf)	: 115.00
Center of Gravity(Inches)	: 6.00

Geosynthetic Reinforcement Type and Number

Supplier	Product Name	Number
	VERSA-Grid VG 10.0	0
	VERSA-Grid VG 3.0	0
	VERSA-Grid VG 5.0	2
	VERSA-Grid VG 8.0	0

Geosynthetic Properties

Geosynthetic Product	Tult (lb/ft)	RFcr	RFd	RFid	LTDS (lb/ft)	Ci	Cds
VERSA-Grid VG 10.0	10205.00	1.57	1.10	1.05	5627.71	0.85	0.90
VERSA-Grid VG 3.0	3435.00	1.54	1.10	1.08	1877.54	0.80	0.80
VERSA-Grid VG 5.0	4200.00	1.54	1.10	1.05	2361.28	0.80	0.85
VERSA-Grid VG 8.0	7400.00	1.55	1.10	1.05	4133.50	0.85	0.90

Unit-Unit Interface Properties

Minimum Shear Capacity (lb/ft)	Shear Friction Angle	Maximum Shear Capacity (lb/ft)
1145.00	35.00	5350.00

Geosynthetic-SRW Unit Connection Strength properties

Geosynthetic Product	Minimum Conn. Capacity (lb/ft)	1st Inflection Point (lb/ft)		2nd Inflection Point (lb/ft)	
		Normal Load (lb/ft)	Connection Capacity (lb/ft)	Normal Load (lb/ft)	Max Connection Capacity (lb/ft)
VERSA-Grid VG 10.0	2000.00	667.00	2325.00	5444.00	4655.00
VERSA-Grid VG 3.0	923.00	360.00	967.00	1889.00	1155.00
VERSA-Grid VG 5.0	1437.00	502.00	1572.00	2549.00	2120.00
VERSA-Grid VG 8.0	1580.00	648.00	1882.00	3238.00	3090.00

Geosynthetic-SRW Unit Shear Strength properties

Geosynthetic Product	Minimum Shear Capacity (lb/ft)	Shear Friction Angle	Maximum Shear Capacity (lb/ft)
VERSA-Grid VG 10.0	1100.00	32.00	4540.00
VERSA-Grid VG 3.0	1100.00	32.00	4540.00
VERSA-Grid VG 5.0	1100.00	32.00	4540.00
VERSA-Grid VG 8.0	1100.00	32.00	4540.00

Vertical Components

Vertical Components of Earth Pressures Used : No

Coefficients of Earth Pressure and Failure Plane Orientation

Reinforcement Soil(Static)(Ka)	: 0.200
Reinforcement Soil(Static)(Kah Horizontal Component)	: 0.192
Internal Modified Back Slope(Bint)	: 1.500
Orientation of failure plane from horizontal(degrees) for Internal Stability	: 56.000
Retained Soil(Static)(Ka)	: 0.230
Retained Soil(Static)(Kah Horizontal Component)	: 0.209
External Modified Back Slope(Bext)	: 1.500
Orientation of failure plane from horizontal(degrees) for External Stability	: 53.005

Result of External Stability Static Analysis

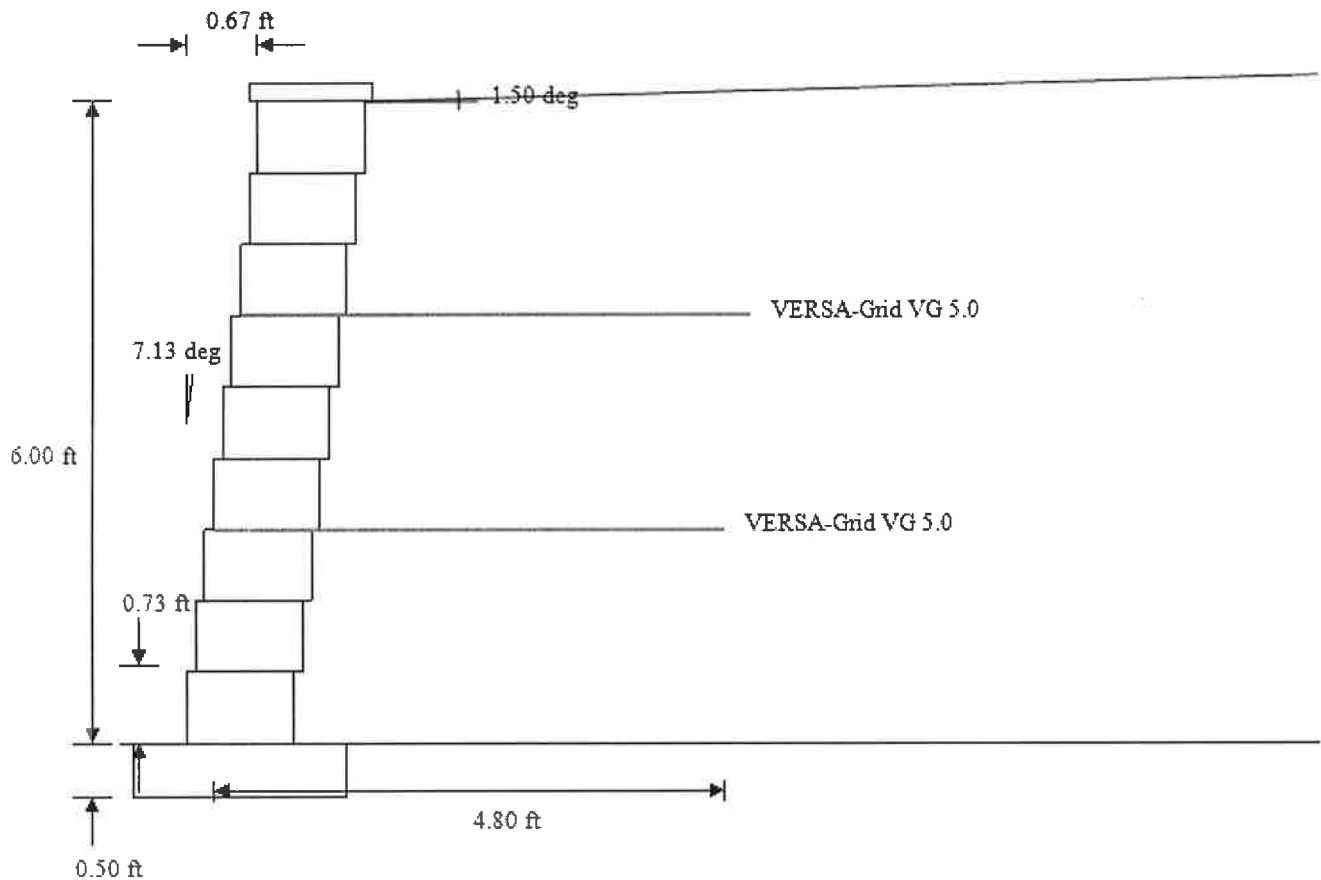
	Calculated	Design Criteria
FOS Sliding	4.68	> 1.50
FOS Overturning	10.10	> 2.00
FOS Bearing Capacity	14.81	> 2.00
Base Reinforcement Length (L)(ft)	4.80	
Base Reinforcement Ratio (L/H)	0.80	> 0.60

Results of Internal Stability Static Analysis

SRW Unit #	Geosynthetic Product	Elevation (ft)	Length (ft)	Anchor Length (ft)	FOS Overstress ≥ 1.50	FOS Pullout ≥ 1.50	FOS Slide ≥ 1.50	Layer Spacing (ft) ≥ 2.00
7	VERSA-Grid VG 5.0	4.00	4.80	1.60	22.73	4.30	32.67	OK
4	VERSA-Grid VG 5.0	2.00	4.80	2.70	7.58	4.72	11.84	OK

Results of Facing Stability Static Analysis

SRW Unit #	Heel Elev (ft)	Geosynthetic Product	FOS Crest Toppling ≥ 1.50	FOS Connection ≥ 1.50
7	4.00	VERSA-Grid VG 5.0	4.36	14.43
4	2.00	VERSA-Grid VG 5.0		5.01

Wall Reinforcement Layout**Project Identification**

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Vendor Data File	:
Project File	: 7' retaining wall.prj
Date and Time	: 04/21/2020 15:04:53

6 ft. Wall

SRWall (Version 4) Report**Project Identification**

Project ID : 19257
Project Name :
Owner : Walker
Client : Walker
Prepared By : David J. Egarian, P.E.
Company : DJ Egarian & Associates
Address : 271 Route 46 Fairfield NJ
Telephone : 973-898-1401
Section :
Project File : 7' retaining wall.prj
Vendor Data File :
Date and Time : 04/21/2020 15:04:53

Type of Structure : Reinforced Wall

Wall Geometry

Design Wall Height(ft) : 6.67
Embedment Wall Height(ft) : 0.73
Exposed Wall Design Height(ft) : 5.94
Number of Segmental Wall Units : 10
Wall Inclination(degrees) : 7.13

Grades

Top Slope(degrees) : 1.50

Uniform Distributed Surcharge

Live Load Surcharge(Psf) : 0.00
Dead Load Surcharge(Psf) : 0.00

Soil Data

Soil Zone	Description	Cohesion (c) (psf)	Friction Angle(Φ) (degrees)	Unit Weight (γ)(pcf)
Reinforced Soil	Sandy Loam	N/A	35.00	120.00
Retained Soil	Sandy Loam	N/A	32.00	120.00
Leveling Pad Soil	Crushed Stone	N/A	40.00	130.00
Foundation Soil	Silty Sand	0.00	32.00	120.00

Segmental Unit Data

Segmental Unit Name	: Square Foot
Cap Height (Inches)	: 2.00
Unit Height (Hu)(Inches)	: 8.00
Unit Width (Wu)(Inches)	: 12.00
Unit Length (Inches)	: 18.00
Setback (Inches)	: 1.00
Weight (Infilled)(lb)	: 115.00
Unit Weight (Infilled)(pcf)	: 115.00
Center of Gravity(Inches)	: 6.00

Geosynthetic Reinforcement Type and Number

Supplier	Product Name	Number
	VERSA-Grid VG 10.0	0
	VERSA-Grid VG 3.0	0
	VERSA-Grid VG 5.0	2
	VERSA-Grid VG 8.0	0

Geosynthetic Properties

Geosynthetic Product	Tult (lb/ft)	RFcr	RFd	RFid	LTDS (lb/ft)	Ci	Cds
VERSA-Grid VG 10.0	10205.00	1.57	1.10	1.05	5627.71	0.85	0.90
VERSA-Grid VG 3.0	3435.00	1.54	1.10	1.08	1877.54	0.80	0.80
VERSA-Grid VG 5.0	4200.00	1.54	1.10	1.05	2361.28	0.80	0.85
VERSA-Grid VG 8.0	7400.00	1.55	1.10	1.05	4133.50	0.85	0.90

Unit-Unit Interface Properties

Minimum Shear Capacity(lb/ft)	Shear Friction Angle	Maximum Shear Capacity (lb/ft)
1145.00	35.00	5350.00

Geosynthetic-SRW Unit Connection Strength properties

Geosynthetic Product	Minimum Conn. Capacity (lb/ft)	1st Inflection Point (lb/ft)		2nd Inflection Point (lb/ft)	
		Normal Load (lb/ft)	Connection Capacity (lb/ft)	Normal Load (lb/ft)	Max Connection Capacity(lb/ft)
VERSA-Grid VG 10.0	2000.00	667.00	2325.00	5444.00	4655.00
VERSA-Grid VG 3.0	923.00	360.00	967.00	1889.00	1155.00
VERSA-Grid VG 5.0	1437.00	502.00	1572.00	2549.00	2120.00
VERSA-Grid VG 8.0	1580.00	648.00	1882.00	3238.00	3090.00

Geosynthetic-SRW Unit Shear Strength properties

Geosynthetic Product	Minimum Shear Capacity(lb/ft)	Shear Friction Angle	Maximum Shear Capacity (lb/ft)
VERSA-Grid VG 10.0	1100.00	32.00	4540.00
VERSA-Grid VG 3.0	1100.00	32.00	4540.00
VERSA-Grid VG 5.0	1100.00	32.00	4540.00
VERSA-Grid VG 8.0	1100.00	32.00	4540.00

Vertical Components

Vertical Components of Earth Pressures Used : No

Coefficients of Earth Pressure and Failure Plane Orientation

Reinforcement Soil(Static)(Ka)	: 0.200
Reinforcement Soil(Static)(Kah Horizontal Component)	: 0.192
Internal Modified Back Slope(Bint)	: 1.500
Orientation of failure plane from horizontal(degrees) for Internal Stability	: 56.000
Retained Soil(Static)(Ka)	: 0.230
Retained Soil(Static)(Kah Horizontal Component)	: 0.209
External Modified Back Slope(Bext)	: 1.500
Orientation of failure plane from horizontal(degrees) for External Stability	: 53.005

Result of External Stability Static Analysis

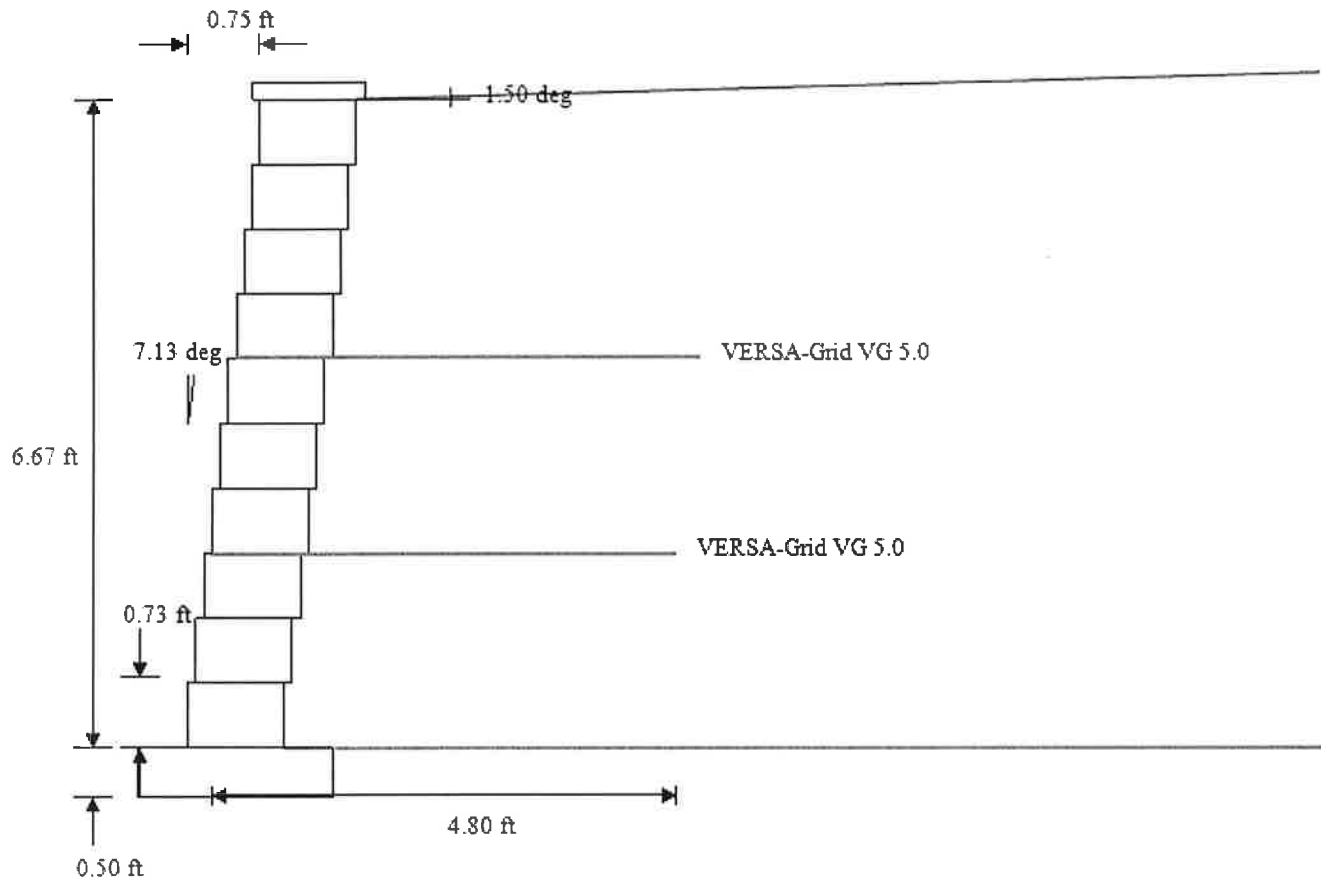
	Calculated	Design Criteria
FOS Sliding	4.22	> 1.50
FOS Overturning	8.33	> 2.00
FOS Bearing Capacity	13.34	> 2.00
Base Reinforcement Length (L)(ft)	4.80	
Base Reinforcement Ratio (L/H)	0.72	> 0.60

Results of Internal Stability Static Analysis

SRW Unit #	Geosynthetic Product	Elevation (ft)	Length (ft)	Anchor Length (ft)	FOS Overstress ≥ 1.50	FOS Pullout ≥ 1.50	FOS Slide ≥ 1.50	Layer Spacing (ft) ≥ 2.00
7	VERSA-Grid VG 5.0	4.00	4.80	1.60	15.21	3.80	21.21	OK
4	VERSA-Grid VG 5.0	2.00	4.80	2.70	6.60	4.79	9.56	OK

Results of Facing Stability Static Analysis

SRW Unit #	Heel Elev (ft)	Geosynthetic Product	FOS Crest Toppling ≥ 1.50	FOS Connection ≥ 1.50
7	4.00	VERSA-Grid VG 5.0	2.63	9.79
4	2.00	VERSA-Grid VG 5.0		4.42

Wall Reinforcement Layout**Project Identification**

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Section	:
Vendor Data File	:
Project File	: 7' retaining wall.prj
Date and Time	: 04/21/2020 15:04:53

7 ft. Wall

SRWall (Version 4) Report**Project Identification**

Project ID : 19257
Project Name :
Owner : Walker
Client : Walker
Prepared By : David J. Egarian, P.E.
Company : DJ Egarian & Associates
Address : 271 Route 46 Fairfield NJ
Telephone : 973-898-1401
Section :
Project File : 7' retaining wall.prj
Vendor Data File :
Date and Time : 04/21/2020 15:04:53

Type of Structure : Reinforced Wall

Wall Geometry

Design Wall Height(ft) : 8.00
Embedment Wall Height(ft) : 0.73
Exposed Wall Design Height(ft) : 7.27
Number of Segmental Wall Units : 12
Wall Inclination(degrees) : 7.13

Grades

Top Slope(degrees) : 1.50

Uniform Distributed Surcharge

Live Load Surcharge(Psf) : 0.00
Dead Load Surcharge(Psf) : 0.00

Soil Data

Soil Zone	Description	Cohesion (c) (psf)	Friction Angle(Φ) (degrees)	Unit Weight (γ)(pcf)
Reinforced Soil	Sandy Loam	N/A	35.00	120.00
Retained Soil	Sandy Loam	N/A	32.00	120.00
Leveling Pad Soil	Crushed Stone	N/A	40.00	130.00
Foundation Soil	Silty Sand	0.00	32.00	120.00

Segmental Unit Data

Segmental Unit Name	: Square Foot
Cap Height (Inches)	: 2.00
Unit Height (Hu)(Inches)	: 8.00
Unit Width (Wu)(Inches)	: 12.00
Unit Length (Inches)	: 18.00
Setback (Inches)	: 1.00
Weight (Infilled)(lb)	: 115.00
Unit Weight (Infilled)(pcf)	: 115.00
Center of Gravity(Inches)	: 6.00

Geosynthetic Reinforcement Type and Number

Supplier	Product Name	Number
	VERSA-Grid VG 10.0	0
	VERSA-Grid VG 3.0	0
	VERSA-Grid VG 5.0	3
	VERSA-Grid VG 8.0	0

Geosynthetic Properties

Geosynthetic Product	Tult (lb/ft)	RFcr	RFd	RFid	LTDS (lb/ft)	Ci	Cds
VERSA-Grid VG 10.0	10205.00	1.57	1.10	1.05	5627.71	0.85	0.90
VERSA-Grid VG 3.0	3435.00	1.54	1.10	1.08	1877.54	0.80	0.80
VERSA-Grid VG 5.0	4200.00	1.54	1.10	1.05	2361.28	0.80	0.85
VERSA-Grid VG 8.0	7400.00	1.55	1.10	1.05	4133.50	0.85	0.90

Unit-Unit Interface Properties

Minimum Shear Capacity (lb/ft)	Shear Friction Angle	Maximum Shear Capacity (lb/ft)
1145.00	35.00	5350.00

Geosynthetic-SRW Unit Connection Strength properties

Geosynthetic Product	Minimum Conn. Capacity (lb/ft)	1st Inflection Point (lb/ft)		2nd Inflection Point (lb/ft)	
		Normal Load (lb/ft)	Connection Capacity (lb/ft)	Normal Load (lb/ft)	Max Connection Capacity (lb/ft)
VERSA-Grid VG 10.0	2000.00	667.00	2325.00	5444.00	4655.00
VERSA-Grid VG 3.0	923.00	360.00	967.00	1889.00	1155.00
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VERSA-Grid VG 8.0	1580.00	648.00	1882.00	3238.00	3090.00

Geosynthetic-SRW Unit Shear Strength properties

Geosynthetic Product	Minimum Shear Capacity (lb/ft)	Shear Friction Angle	Maximum Shear Capacity (lb/ft)
VERSA-Grid VG 10.0	1100.00	32.00	4540.00
VERSA-Grid VG 3.0	1100.00	32.00	4540.00
VERSA-Grid VG 5.0	1100.00	32.00	4540.00
VERSA-Grid VG 8.0	1100.00	32.00	4540.00

Vertical Components

Vertical Components of Earth Pressures Used : No

Coefficients of Earth Pressure and Failure Plane Orientation

Reinforcement Soil(Static)(Ka)	: 0.200
Reinforcement Soil(Static)(Kah Horizontal Component)	: 0.192
Internal Modified Back Slope(Bint)	: 1.500
Orientation of failure plane from horizontal(degrees) for Internal Stability	: 56.000
Retained Soil(Static)(Ka)	: 0.230
Retained Soil(Static)(Kah Horizontal Component)	: 0.209
External Modified Back Slope(Bext)	: 1.500
Orientation of failure plane from horizontal(degrees) for External Stability	: 53.005

Result of External Stability Static Analysis

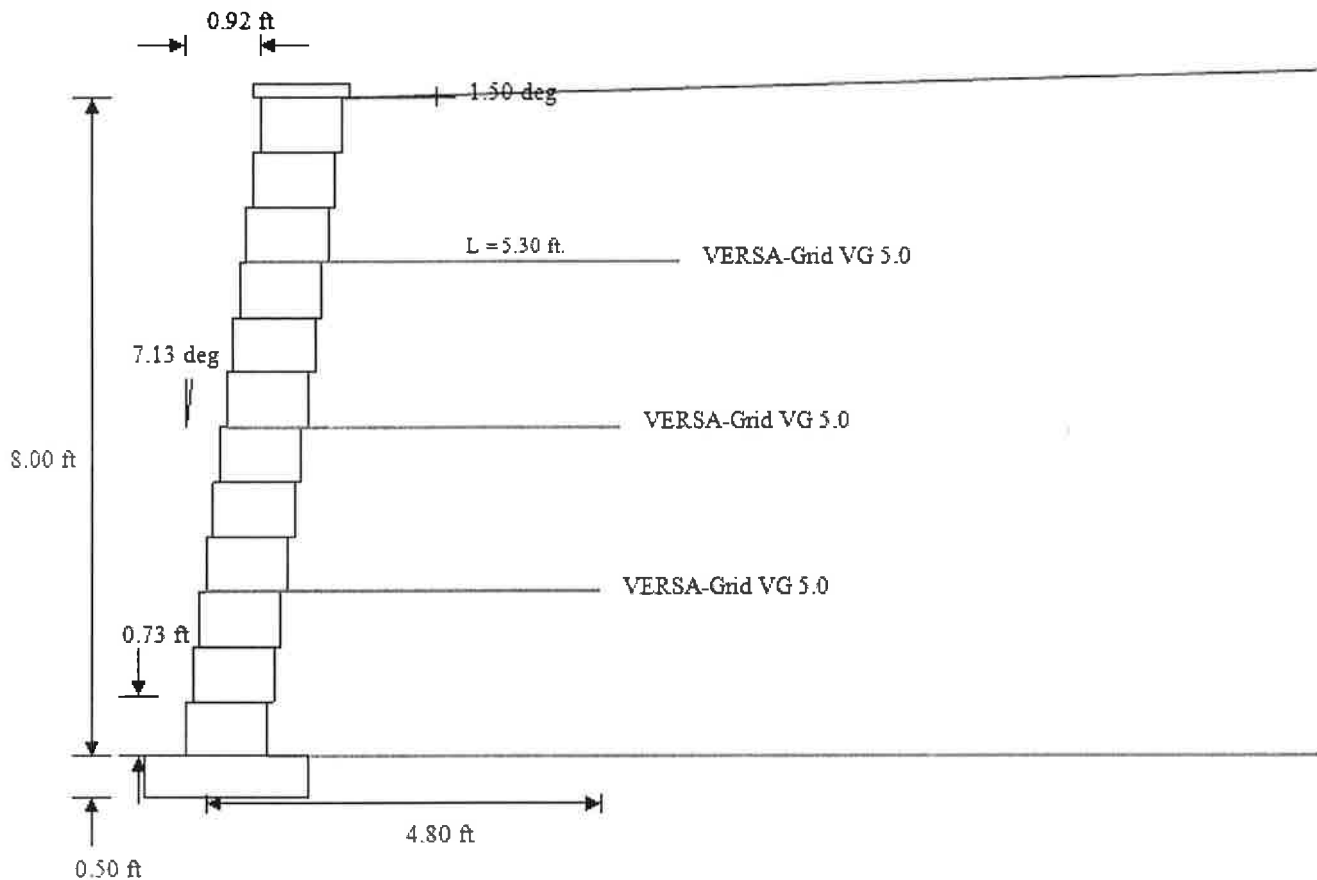
	Calculated	Design Criteria
FOS Sliding	3.53	> 1.50
FOS Overturning	6.00	> 2.00
FOS Bearing Capacity	11.03	> 2.00
Base Reinforcement Length (L)(ft)	4.80	
Base Reinforcement Ratio (L/H)	0.60	> 0.60

Results of Internal Stability Static Analysis

SRW Unit #	Geosynthetic Product	Elevation (ft)	Length (ft)	Anchor Length (ft)	FOS Overstress ≥ 1.50	FOS Pullout ≥ 1.50	FOS Slide ≥ 1.50	Layer Spacing (ft) ≥ 2.00
10	VERSA-Grid VG 5.0	6.00	5.30	1.00	22.73	2.72	32.67	OK
7	VERSA-Grid VG 5.0	4.00	4.80	1.60	12.78	4.74	11.84	OK
4	VERSA-Grid VG 5.0	2.00	4.80	2.70	5.24	4.88	6.82	OK

Results of Facing Stability Static Analysis

SRW Unit #	Heel Elev (ft)	Geosynthetic Product	FOS Crest Toppling ≥ 1.50	FOS Connection ≥ 1.50
10	6.00	VERSA-Grid VG 5.0	4.36	14.43
7	4.00	VERSA-Grid VG 5.0		8.45
4	2.00	VERSA-Grid VG 5.0		3.60

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