Approved MSE Wall List

Wall Firm	Tensar International
Wall Name	MESA
Contact Name	Peter Larkin
Contact Phone	910-579-7296
Contact Address 1	453 Lake Shore Drive
Contact Address 2	Sunset Beach, NC 28468
Wall Type	Precast Modular Block
Soil Reinforcement	Polyethylene geogrid
Web Link	www.tensarcorp.com
Max Approved Wall	40 feet
SHA Approval Date	07/23/2001
Notes	Typical Unit is 8 inches high, Not evaluated for bridge abutments, walls may be constructed vertically or with a batter of 0.675 inches per course, blocks have slots that allow a positive connection of geogrids to wall (no pins required), Tensar does have a 2-stage wall system available.

Wall Firm	Keystone Retaining Wall Syste
Wall Name	Key System II
Contact Name	Keith Miller
Contact Phone	952-897-1040
Contact Address 1	4444 West 78th Street
Contact Address 2	Minneapolis, MN 55435
Wall Type	Precast Modular Block
Soil Reinforcement	Mirafi geogrid, Strata geogrid
Web Link	www.keystonewalls.com
Max Approved Wall	50 feet with proper setback
SHA Approval Date	04/18/2018
Notes	Block sizes are 4" or 8" x 18" x 12" with five finishes. The wall requires a setback if the height exceeds 32 feet. The wall system uses Strata's Stratagrid and Mirafi's Miragrid XT polyester soil reinforcing. Only Miragrid 3XT and 7XT can be used with the Compac III soil block. This wall system has been used with traffic barriers, but it was not demonstrated in the submission. This wall system can not be used in situations that require traffic barriers mounted on the top of the wall. Keystone has revised this product name to use the Compac II block only. The Compac III block is used in Key System III

Wall Firm	Reinforced Earth Wall Compan
Wall Name	Reinforced Earth
Contact Name	Keith Brabant
Contact Phone	(703)547-8797 x1131
Contact Address 1	12001 Sunrise Valley Drive, Sui
Contact Address 2	Reston, VA 20191
Wall Type	Precast Concrete Panels
Soil Reinforcement	galvanized steel reinforcing stri
Web Link	www.reinforcedearth.com
Max Approved Wall	50 feet
SHA Approval Date	Not Applicable
Notes	This wall system does not have an approval date because it was automatically granted approval since the system was in use years before we started an official approval process Galvanized steel reinforcing strips are bolted to metal inserts cast in the panels, Reinforced Earth Company does have a 2-stage wall system available. The updated submittal includes increase pullout resistance of strips and a revised panel design to handle the increase.

Wall Firm	The Neel Company
Wall Name	Isogrid Retaining Wall System
Contact Name	John Dallain
Contact Phone	703-913-7858
Contact Address 1	8328-D Traford Lane
Contact Address 2	Springfield, VA 22152
Wall Type	Precast Concrete Panels (Diam
Soil Reinforcement	Galvanized welded wire grid
Web Link	www.neelco.com
Max Approved Wall	25 feet
SHA Approval Date	10/26/1994
Notes	Galvanized steel wire grid are bolted to metal inserts cast in the panels, weep holes are provided at the corners of the panels

Wall Firm	The Neel Company
Wall Name	T-wall
Contact Name	Kamal Dixit
Contact Phone	703-913-7858
Contact Address 1	8328-D Traford Lane
Contact Address 2	Springfield, VA 22152
Wall Type	: Precast modular gravity type
Soil Reinforcement	None
Web Link	http://www.neelco.com/system-
Max Approved Wall	50 feet
SHA Approval Date	12/22/2017
Notes	The nominal panel sizes are (5' high x 7.5' wide, 7" min. thick. The panels are attached to stems that vary in length from 6' to 32' to form a T shape. ¾" lap joints are used on all panel edges. Each panel is separated by 2 preformed rubber bearing pads and 2 shear key inserts. This wall has a predesigned TL-5 moment slab for use. This wall can not use a cast-in-place concrete facing material. This company consistently tries to deviate from the No. 57 stone backfill requirement.

Wall Firm	Hanson Pipe and Products
Wall Name	Strengthened Earth System
Contact Name	Bob Rex
Contact Phone	610-970-2216 , 1-800-970-2216
Contact Address 1	P.O. Box 955
Contact Address 2	Pottstown, PA 19464
Wall Type	Precast Concrete Panels
Soil Reinforcement	Galvanized Welded Wire Mesh
Web Link	no web address provided
Max Approved Wall	21 feet
SHA Approval Date	02/26/1996
Notes	This wall system uses large panels resulting in a quicker installation. Connection of reinforcement to panel is made by placing tiebar through opening formed by mesh and connectors cast in back of panel.

Wall Firm	Jeff Zell Consultants
Wall Name	Dura Hold & Dura Hold II
Contact Name	Ron Matthews
Contact Phone	412-262-2022
Contact Address 1	1031 4th Avenue
Contact Address 2	Coraopolis, PA 15108
Wall Type	Precast Concrete Retaining Wa
Soil Reinforcement	Polyethylene Geogrid
Web Link	no web address provided
Max Approved Wall	15 feet
SHA Approval Date	06/02/1999
Notes	Walls built with a 1/8 batter. This system can be constructed as a crib wall system eliminating the need for geogrid.

Wall Firm	Doublewall Corporation
Wall Name	Doublewal
Contact Name	Tom Pikor
Contact Phone	860-739-0295
Contact Address 1	7 West Main Street
Contact Address 2	Plainville, CT 06062
Wall Type	Precast Concrete Earth Filled
Soil Reinforcement	NA
Web Link	www.doublewal.com
Max Approved Wall	45 feet
SHA Approval Date	Not Applicable
Notes	This wall system does not have an approval date because it was automatically granted approval since the system was in use years before we started an official approval process. Gravity wall system

Wall Firm	Anchor Wall Systems
Wall Name	Landmark Retaining Wall Syste
Contact Name	Bruce Brody
Contact Phone	301-733-3510
Contact Address 1	860 Oak Street
Contact Address 2	Hagerstown, MD 21740
Wall Type	Precast Modular Block
Soil Reinforcement	Mirafi geogrid
Web Link	www.anchorwall.com
Max Approved Wall	45 feet
SHA Approval Date	01/29/2004
Notes	Typical Unit is 8 inches high, connection of soil reinforcement to block is made with an extruded lock bar inserted into a notch cast in the blocks

Wall Firm	Schuylkill Products, Inc.
Wall Name	Evergreen Retaining Wall Syst
Contact Name	Jack McCallus
Contact Phone	none
Contact Address 1	121 River Street
Contact Address 2	Cressona, PA 17929-1133
Wall Type	Precast Concrete Earth Filled
Soil Reinforcement	NA
Web Link	www.spibeams.com
Max Approved Wall	Pending
SHA Approval Date	Pending
Notes	THIS WALL SYSTEM IS STILL UNDER REVIEW AND IS NOT APPROVED FOR USE AT THIS TIME!!! 1) Wall system reviewed - requested more information

Wall Firm	Tricon Precast LTD
Wall Name	Tricon Retained Soil Wall Syste
Contact Name	Bryan Jennings, TEG Engineeri
Contact Phone	616-261-8630
Contact Address 1	1505 44th Street, Suite B
Contact Address 2	Wyoming, Michigan
Wall Type	Precast Concrete Panels
Soil Reinforcement	Galvanized Welded Wire Mesh
Web Link	www.triconprecast.com
Max Approved Wall	50 feet
SHA Approval Date	8/6/2007
Notes	Features retangular segmental precast concrete panels and galvanized welded-wire, grid-type soil reinforcement. Soil reinforcements are shop pre-bentand hot dippec galvanized after welding. The reinforcement is connected to the facing panel using a loop type connector cast into the facing panel and steel locking bar.

Wall Firm	Supreme Concrete Block, Inc.
Wall Name	Rockwood Retaining Wall Syst
Contact Name	Matt L. Tiches
Contact Phone	1-800-232-6080
Contact Address 1	PO Box 571
Contact Address 2	Winchester, VA 22604
Wall Type	Precast Modular Block
Soil Reinforcement	Geogrid
Web Link	www.rockwoodwalls.com
Max Approved Wall	30 feet
SHA Approval Date	11/27/2006
Notes	Classic 8 Segmental Unit - 8" high 18" wide and 12" deep Legend Segmental Unit - 8" high 18" wide and 22" deep Geogrid is held in by friction between block layers. The plane between layers is broken up by depressions.

Wall Firm	Ground Improvement Systems
Wall Name	EarthTec
Contact Name	Eric P. Hilberath
Contact Phone	817-223-0969
Contact Address 1	114 South Collins Street
Contact Address 2	Arlington, TX 76011
Wall Type	Precast Concrete Panels
Soil Reinforcement	ribbed galvanized steel strips
Web Link	www.groundimprovementsyste
Max Approved Wall	50 feet
SHA Approval Date	08/04/2021
Notes	Nominal panel dimension width is 5 ft. to 10ft. Standard nominal panel height range from 2 ft. to 7.5 ft. in 6 inch increment. Galvanized steel strips are bolted to metal inserts cast in the panels.Only EarthTrac SS1 and SS3 steel strips are approved.

Wall Firm	Modern Foundations, Inc.
Wall Name	Stone Strong System
Contact Name	Bruce Neale
Contact Phone	410-795-8877
Contact Address 1	7860 Kabik Court, Suite A
Contact Address 2	Woodbine, MD 21797
Wall Type	Precast Concrete Stone Filled
Soil Reinforcement	NA
Web Link	www.stonestrong.com
Max Approved Wall	36 feet
SHA Approval Date	06/03/09
Notes	This wall is a gravity wall system consisting of hollow blocks. The wall can be constructed with either a vertical face or in a battered (6.34 deg, typical) configuration. The hollow core is filled with stone for increased resistance to overturning. The wall can be constructed to the height of 36 ft. (maximum) with cast-in-place concrete tail extension. The wall is good as a gravity wall without extension for the max. height of 15 ft. for vertical face and max height of 16.50 feet for battered face. This wall system is not approved for situations that require a traffic barrier system to be mounted at the top of the wall.

Wall Firm	Maccaferri, Inc.
Wall Name	Terramesh System
Contact Name	Alan R. Dinges
Contact Phone	301-223-6910
Contact Address 1	10303 Governor Lane Blvd.
Contact Address 2	Williamsport, MD 21795-3116
Wall Type	Gabion baskets with soil reinfor
Soil Reinforcement	double twisted steel mesh
Web Link	www.maccaferri-usa.com
Max Approved Wall	20 Feet
SHA Approval Date	03/18/2009
Notes	The Terramesh system is fabricated from a double twisted steel mesh, which is galvanized and subsequently PVC coated, and features a Gabion-type basket section. The facing basket is integrally manufactured with the doule twisted wire-mesh soil reinforcement. The facing section of the unit is formed by connecting the back panel and a diaphragm to the main unit that forms rectangular shaped cells used for infill facing stone confinement.

Wall Firm	Suscon Product
Wall Name	Redi Rock Retaining Wall Syst
Contact Name	Brian Anstiss
Contact Phone	443-640-7444
Contact Address 1	42 Fort Hoyle Road
Contact Address 2	Joppa, MD 21085
Wall Type	Precast Modular Blocks
Soil Reinforcement	TenCate Miragrid geogrid
Web Link	www.redi-rock.com
Max Approved Wall	50 feet
SHA Approval Date	09/21/2022
Notes	This wall is a gravity wall system consisting of a variety of solid or hollow core blocks. The wall is good as a gravity wall to about 25' in height depending on soil conditions. Above that height the wall must be tied back with geogrid and can achieve heights of 50'. 4 textured face types give the appearance of quarried stone. Only the following geogrid can be used: TenCate Miragrid 5XT, 8XT, 10XT, 20XT and 24XT

Wall Firm	Sine Wall, LLC
Wall Name	Sine Wall
Contact Name	David Brodowski
Contact Phone	919-453-2011
Contact Address 1	P.O. BOX 1781
Contact Address 2	Wake Forest, NC 27588
Wall Type	Precast Concrete Panels
Soil Reinforcement	configured galvanized & alumini
Web Link	www.sinewall.com
Max Approved Wall	50 feet
SHA Approval Date	06/15/2010
Notes	Nominal panel size is 10' wide x 5' high x 5 1/2" thick. Three quarter inch ship lap joints are used on all panel edges. Galvanized or aluminized steel strips are bolted to metal inserts cast in the panels. Each panel in the system is separated by a preformed EPDN rubber pad having a durometer hardness of 80.

Wall Firm	Dura-Sales
Wall Name	Dura Hold
Contact Name	Mike Cieslinski
Contact Phone	724-929-8881
Contact Address 1	2481 Bull Creek Road
Contact Address 2	Tarentum, PA 15084
Wall Type	Precast Interlocking Concrete
Soil Reinforcement	NA
Web Link	www.dura-sales.com
Max Approved Wall	25 feet
SHA Approval Date	08/04/2010
Notes	Walls built with a 1/8 batter. This system is a crib wall system.

Wall Firm	Tensar International
Wall Name	ARES
Contact Name	Peter Larkin
Contact Phone	910-579-7296
Contact Address 1	453 Lake Shore Drive
Contact Address 2	Sunset Beach, NC 28468
Wall Type	Precast Concrete Panels
Soil Reinforcement	Polyethylene geogrid
Web Link	www.tensarcorp.com
Max Approved Wall	50 feet
SHA Approval Date	01/17/2011
Notes	Features retangular segmental precast concrete panels that vary in dimension from the most typical 5' x 5' to 5' x 9'. Soil reinforcement consists of Tensar geogrids connected to the geogrid tab embedded in the facing panels with the Tensar patented bodkin connection. The system as approved also incluces a two stage wall option using wire baskets as the temporary face of the wall with either a cast in place concrete face or a precast concrete face as the final wall facing.

Wall Firm	Cornerstone Wall Solutions, Inc
Wall Name	MagnumStone Retaining Wall
Contact Name	Tolin Hessell
Contact Phone	201-281-1218
Contact Address 1	6420 79 Ave. SE #24
Contact Address 2	Calgary, AB T2C 4S6
Wall Type	Precast Concrete Stone Filled
Soil Reinforcement	Strata Geogrid
Web Link	www.cornerstonewallsolutions.
Max Approved Wall	30 feet
SHA Approval Date	1/19/2022
Notes	This wall is a system consisting of hollow blocks that are 4' long x 2' high x 2' thick. The blocks are stacked on top of each other with either a vertical face or a battered face. The hollow core is filled with stone for increased resistance to over turning. The wall is good as a gravity wall to about 5' in height. Above that height the wall must be tied back with geogrid. The geogrid is weaved through the hollow core of the block creating a positive connection.

Wall Firm	Big R Bridge
Wall Name	Vistawall
Contact Name	Jeff Stone
Contact Phone	770-277-6242
Contact Address 1	P.O. Box 1290
Contact Address 2	Greeley, CO 80632-1290
Wall Type	Precast Concrete Panels
Soil Reinforcement	preconfigured galvanized strips
Web Link	http://www.bigrbridge.com
Max Approved Wall	50 feet
SHA Approval Date	11/12/2014
Notes	The nominal panel size is 5' high x 5' wide x 6" thick.. 1¼" lap joints are used on all panel edges. Hot-dip galvanized steel soil reinforcing that are bolted to metal inserts cast in the panels. Each panel is separated by a series of 2 or 4 preformed 60 durometer rubber bearing pads. This wall has a predesigned TL-5 moment slab for use. This wall can not use a cast-in-place concrete facing material.

Wall Firm	Maccaferri
Wall Name	Macres
Contact Name	Giulia Lugli
Contact Phone	(301) 223-6910 Ext. 232
Contact Address 1	10303 Governor Lane Boulevar
Contact Address 2	Williamsport, Maryland 21795
Wall Type	Precast Concrete Panels
Soil Reinforcement	Unidirectional PET
Web Link	http://www.maccaferri.com/us/p
Max Approved Wall	50 feet
SHA Approval Date	06/10/2016
Notes	The nominal panel size is (5' high x 5' wide) or (5' high x 10' wide) x 5 1/2" thick. ¾" lap joints are used on all panel edges. Polyethylene coated Polyester unidirectional strip soil reinforcing that are wrapped around rubber coated recessed shafts cast in the panels. Each panel is separated by a series of 2 or 4 preformed 60 durometer rubber bearing pads. This wall has a predesigned TL-5 moment slab for use. This wall can not use a cast-in-place concrete facing material.

Wall Firm	Tricon Precast LTD
Wall Name	Triweb Retained Soil Wall
Contact Name	Bryan Jennings, TEG Engineeri
Contact Phone	616-261-8630
Contact Address 1	1505 44th Street SW, Suite B
Contact Address 2	Wyoming, MI 49509
Wall Type	Precast Concrete Panels
Soil Reinforcement	Unidirectional PET
Web Link	http://www.triconprecast.com/
Max Approved Wall	50 ft
SHA Approval Date	9/26/2016
Notes	The nominal panel size is (5' high x 5' wide) or (5' high x 10' wide) x 5 1/2" thick. 1 1/2" ship lap joints are used on all panel edges. Polyethylene coated Polyester unidirectional strip soil reinforcing that are wrapped around loop anchors cast in the panels. The strips are arranged in a W pattern with a U-pin in the soil to maintain shape. Each panel is separated by a series of 2 or 4 preformed 60 durometer rubber bearing pads. This wall has a predesigned TL-5 moment slab for use. This wall can not use a cast-in-place concrete facing material.

Wall Firm	Earthwall Products
Wall Name	Gravix
Contact Name	Hunter Fenk
Contact Phone	(412) 445-0241
Contact Address 1	1741 Dixie Ave
Contact Address 2	Marietta, GA 30080
Wall Type	Precast modular counterfort wa
Soil Reinforcement	N/A
Web Link	http://www.earthwallproducts.co
Max Approved Wall	30
SHA Approval Date	11/05/2017
Notes	The nominal panel sizes are (2’ high x 8’ wide), (4’ high x 8’ wide) or (6’ high x 8’ wide) x 4 to 8" thick. The panels are attached to stems that vary in length from 4’ to 24’ to form a T shape. ¾" lap joints are used on all panel edges. Each panel is separated by 3 preformed rubber bearing pads. This wall has a predesigned TL-4 moment slab for use. This wall can not use a cast-in-place concrete facing material.

Wall Firm	Allan Block Corporation
Wall Name	Allan Block Retaining Wall Syst
Contact Name	Laura Horstmann
Contact Phone	(952)835-5309 x 205
Contact Address 1	7424 W 78th Street
Contact Address 2	Bloomington, MN 55439
Wall Type	Concrete Modular Block Units
Soil Reinforcement	Geogrid (SG200 and SG350)
Web Link	www.allanblock.com
Max Approved Wall	30 ft.
SHA Approval Date	05/11/2021
Notes	Block units approved for this wall is AB Classic with 6 degree batter and AB vertical with 3 degree batter. The soil reinforcements approved are Stratagrid SG200 and SG350. The system is not approved for mounting traffic barrier system on the top of the wall. The system can be used for both infinite or level backslope with traffic surcharge.

Wall Firm	The Reinforced Earth Company
Wall Name	TechWallTM
Contact Name	Reza Tavakolian
Contact Phone	(703)547-8797 x 1136
Contact Address 1	45610 Woodland Rd, Suite 200
Contact Address 2	Sterling, Virginia 20166
Wall Type	Precast Concrete Counterfort R
Soil Reinforcement	N/A
Web Link	www.reinforcedearth.com
Max Approved Wall	25 ft.
SHA Approval Date	05/10/2021
Notes	The wall system is approved for level backfill condition and has to founded on a cast-in-place spread footing. The wall system is not approved for mounting traffice barrier system on top.

Wall Firm	Keystone Retaining Wall Syste
Wall Name	Key System III
Contact Name	keith Miller
Contact Phone	952-897-1040
Contact Address 1	4444 West 78th Street
Contact Address 2	Minneapolis, MN 55435
Wall Type	Precast Modular Block
Soil Reinforcement	Mirafi geogrid
Web Link	www.keystonewall.com
Max Approved Wall	50 feet with proper setback
SHA Approval Date	02/15/2022
Notes	Block sizes are 4" or 8" x 18" x 12" with five finishes. The wall requires a setback if the height exceeds 32 feet. The wall system uses Mirafi's Miragrid XT polyester soil reinforcing. Only Miragrid 3XT, 5XT, 7XT, 8XT and 10XT can be used with the Compac III soil block. This wall system has been used with traffic barriers, but it was not demonstrated in the submission. This wall system can not be used in situations that require traffic barriers mounted on the top of the wall. This wall was approved under the key sytem II name originally. Keystone created the Key System III name to refer to the Compac III block system only. The Compac II block is used in Key System II exclusively.