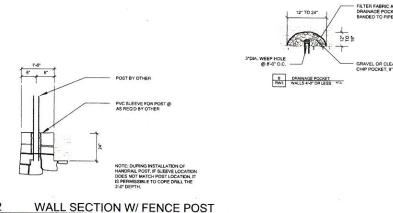
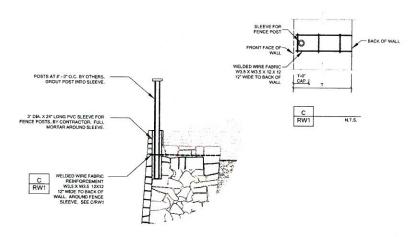


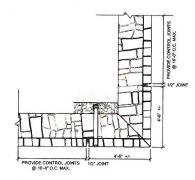
		R	W1/1 MASON	RY WALL SCHE	OULE - 3000 psf	VERTICAL BAT	TER	A 100 A	
		В	EARING CAPACIT	Y ON NATURAL S	OIL OR COMPACT	TED AND TESTED	FILLS		
WALL	BASE	TOE	BASE	BASE	BATTER	FULLY MORTARED ZONE	THICKNESS	DRAINAGE ZONE	BEARIN
HEIGHT	WIDTH	L	DEPTH (TOE)	DEPTH (HEEL)			OF WALL	THICKNESS	CAPACIT
Н	В	B1	С	C1	Α	Ε	т	G	
1' - 0"	1' - 0"	0' - 0"	0' - 9"	0' - 2"	0' - 1/8"	FULLY	1' - 0"	SEE B/RW1	3000 ps
2' - 0"	1' - 4"	0' - 1"	0' - 10"	0' - 3"	0' - 1/4"	FULLY	1' - 3"	SEE B/RW1	
3' - 0"	1' - 9"	0' - 2"	0' - 11"	0' - 4"	0, - 3/8,	FULLY	1' - 7"	SEE B/RW1	
4' - 0"	2' - 3"	0' - 3"	1'-0"	0' - 5"	0' - 1/2"	FULLY	2' - 0"	SEE B/RW1	
5' - 0"	2' - 9"	0' - 3"	1' - 3"	0'-6"	0' - 5/8"	0' - 11"	2' - 6"	0' - 11"	
6' - 0"	3' - 4"	0' - 3"	1' - 6"	0' - 7"	0' - 3/4"	1' - 0"	3' - 1"	1'-0"	
7' - 0"	3' - 10"	0' - 8"	1' - 9"	0'-8"	0' - 7/8"	1' - 1"	3' - 2"	1' - 1"	
200000				WALL DES	IGN CRITERIA				
BEARING	SLOPE TOP	SLOPE BOT	ACTIVE PRESSURE	PASSIVE PRESSURE	COEFFICIENT OF FRICTION	SLOPE OF BACK OF WALL	SURCHARGE		
Q,	β	β1	ф.	ф,		α	q		
3000 psf	14.3 deg	14.3 deg	26 deg	26 deg	0.32	99.5 deg	0 psf	1	

RW1/1 MASONRY RETAINING WALL W/ VERTICAL FACE

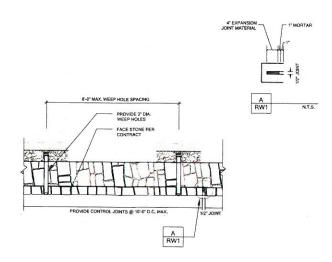




DETAIL OF WALL WITH WELDED WIRE RW1/3 FABRIC FOR FENCE SLEEVE



RW1/4 TYPICAL PLAN VIEW AT CORNER



RW1/5 TYPICAL PLAN VIEW AT BASE 1. Design Bullding Code

International Building Code, 2015 Edition

2. Geotechnical Report Firm: ECS TEXAS, LLP

Project No: 19:7098 Dated: April 17, 2017

3. Geotechnical Criteria

Bearing on Stiff Natural Undisturbed Clayey Soils or Compacted and Tested Soils Allowable Bearing: 3000 psf, minimum bearing on compacted and tested soils or undisturbed cuts

Coefficient of friction at base of wall = 0.30 Backfill Soil Parameters: Backfill Soil - Natural Clays or Fill Soils

Backfill Angle of Internal Friction PHI = 26 degrees

Base Soil Parameters:

Soil at Toe - natural, Undisturbed or Fill Soils

Angle of Internal Friction PHI = 26 degrees

The backfill soil angle of internal friction referred to above is a composite angle of internal friction and includes both cohesion and angle of internal friction of the soils

The use of very wet or very dry backfill soil should be avoided. The use of heavy equipment within 3'-0" of

Locate base of walls on undisturbed or properly compacted soil.

Average density of masonry stone wall varies from 135 pcf to 145 pcf. Size of stone within wall varies from 4" to 18". Crushed concrete with or without rebar is acceptable to be used in the wall construction.

Drainage zone materials may be composed of clean gravel or stone ranging from 1" to 5". Crushed concrete is acceptable provided it is clean and generally free of dust or other deletrious materials.

Portland Cement Mortar for Retaining Wall Construction.

The Portland cement mortar used for construction of the above grade portion of the masonry stone retaining walls shall be provided with the following proportions per cubic yard of concrete. The Portland cement mortar supplier shall provide "batch tickets" clearly indicating that the appropriate amount of materials are provided in each concrete mixer truck load. The batch tickets shall clearly indicate the amount batched, the date, the project name and shall be provided to DirtSavers, LLC. for review, documentation, and file.

Amount per cubic yard Type F Fly Ash: Fine Aggregate (sand): 3,250 lbs. Potable Water: 235 lbs. Type 1 Portland Cement: 376 lbs. Admixture Eucon 100:

Concrete retarders such as "Eucon 100 Retarder" may be used at the discretion of the masonry wall contractor. A greater amount of retarder (about 64 ounces) is typically used during hot periods and a less amount of retarder (about 32 ounces) is typically used during cool weather.

Please note that the above proportions will provide a Portland cement mortar with a compressive strength of about f'c = 2000 psi. DirtSavers, LLC. does not require any concrete testing provided the above proportions are verified by way of the "batch tickets".

5. Construction Reviews

DirtSavers, LLC. shall be called for construction review of masonry wall.

6. Retaining Wall Design Constraints

Retaining walls shall not have additional surcharge placed above the wall other than that shown on these plans. Retaining walls shall not have slope at base or top of wall that exceeds that which is shown on these plans. The retaining walls noted above require special design.

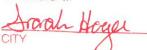
Minor variations in the construction of the retaining walls from these documents may be accepted at the discretion of the design engineer.

REVISION

OCT 11 2018

CITY OF ROCKWALL ENGINEERING DEPT.

HELEASED FOR CONSTRUCTION ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN



DATE

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SOLUTION **P** 83 ST WESTERN I MASONRY RETAINING WALL ROCKWALL, TEXAS / SITE ERW

REVISIONS

DB: MAM CHK'D: MAM APP'D: MAI



RETAINING WALL **DETAILS AND NOTES**

10.03.2018

RW1