

HORIZONTAL SCALE

	10701 CORPORATE DR., &	STAFFORD, TEXAS 77477	PHONE: (281) 980-7705	TBPE FIRM REGISTRATIC
TER OF	ENTER		ERLY	

	GRADING PLAIN	(SHEET 2 OF 2)			ALDERS AT ROCKWALL	SENIOR INDEPENDENT LIVING	COMMUNITY	
₹ 5	TAL	TAL	TAL		TAL		TAL	
БТ	TAL	TAL	KTM		KTM		KTM	
DAIE BT CHK	02/21/19 TAL TAL	05/17/19 TAL TAL	07/17/19 KTM TAL		09/19/19 KTM TAL		11/07/19 KTM TAL	
KEVISIUNS	UPDATE WATERLINE LAYOUT	MINOR HUD/OWNER COMMENTS	REV. TO SIDEWALKS & COURTYARD	(STORM) PER LANDSCAPE	REV. TO EX. STORM TIE-IN ELEVATION	AND SD LINE 'A' (PUBLIC)	REV. COURTYARD DRAINS, BACKFLOW,	SS SERVICE, GARAGE FOOTPRINTS
	\mathbb{V}	abla			\blacksquare		\mathbb{Q}	
7/17/19 9/19/19 OF 7/17/19 19/19/19 OF 7/29/19 THOMAS A. LUNZMAN 122259 CENSE S/ONAL ESIGNED BY: TAL RAWN BY: NRM/TAL PPROVED BY: TAL								
RAV	VN B	Y:		N	RM	/TA	L	

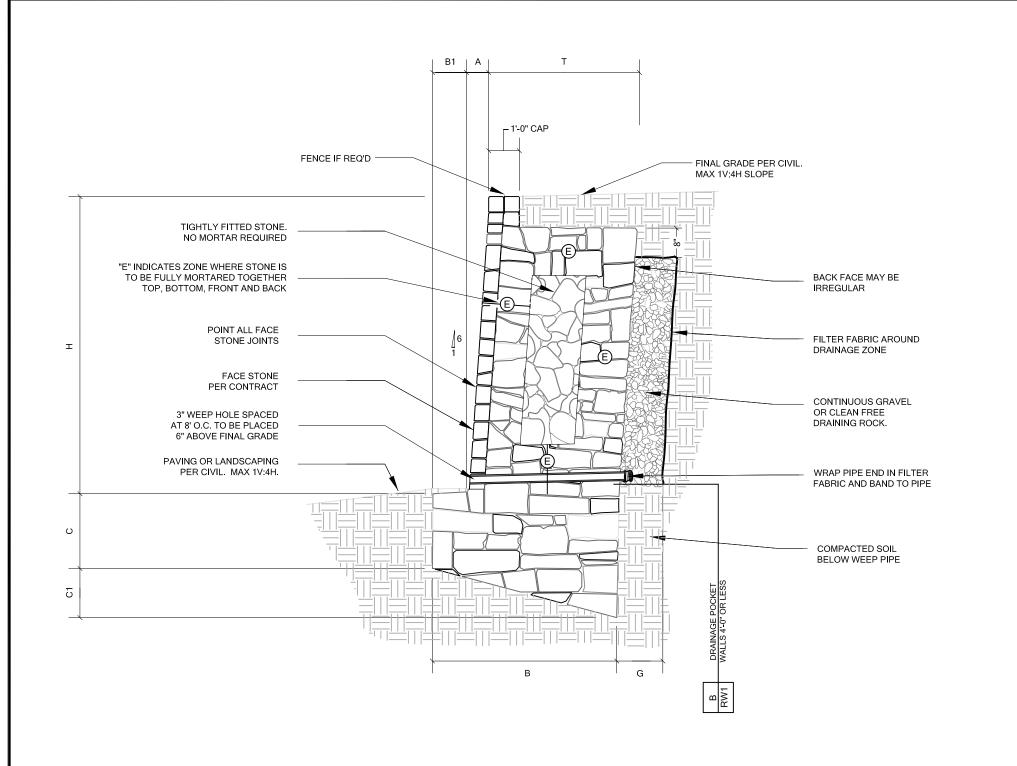
01/29/2019

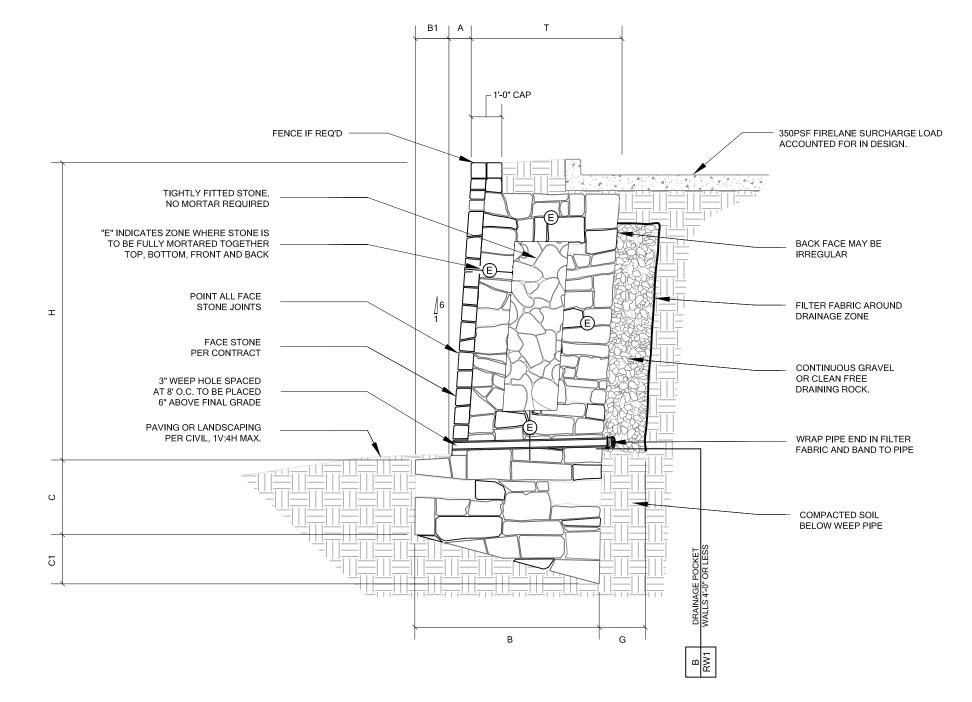
1" = 30'

SCALE:

SHEET NUMBER:

C.09





			RW1/1 MASO	NRY WALL SCH	EDULE -1500 ps	f - 6V:1H BATTE	R		
		BI	EARING CAPACIT	Y ON NATURAL S	OIL OR COMPACT	ED AND TESTED I	FILLS		
WALL	BASE	TOE	BASE	BASE	BATTER	FULLY MORTARED	THICKNESS	DRAINAGE ZONE	BEARING
HEIGHT	WIDTH		DEPTH (TOE)	DEPTH (HEEL)		ZONE	OF WALL	THICKNESS	CAPACITY
Н	В	B1	С	C1	Α	Е	T	G	
1' - 0"	1' - 0''	0' - 0"	0' - 9"	0' - 2"	0' - 2"	FULLY	1' - 0"	SEE B/RW1	
2' - 0"	1' - 3"	0' - 0"	0' - 10"	0' - 3"	0' - 4"	FULLY	1' - 3"	SEE B/RW1	
3' - 0"	1' - 8"	0' - 0"	0' - 11"	0' - 4"	0' - 6"	FULLY	1' - 8"	SEE B/RW1	1500 psf
4' - 0"	2' - 1"	0' - 0"	1' - 0"	0' - 4"	0' - 8"	FULLY	2' - 1"	SEE B/RW1	
5' - 0"	2' - 5"	0' - 1"	1' - 3"	0' - 5"	0' - 10"	0' - 10"	2' - 4"	0' - 10"	
6' - 0"	3' - 2"	0' - 2"	1' - 6"	0' - 7"	1' - 0"	1' - 0"	3' - 0"	0' - 10"	
7' - 0"	3' - 9"	0' - 7"	1' - 9"	0' - 8"	1' - 2"	1' - 1"	3' - 2"	1' - 0"	
8' - 0"	4' - 8"	0' - 9"	2' - 0"	0' - 10"	1' - 4"	1' - 4"	3' - 11"	1' - 0"	
WALL DESIGN CRITERIA									
BEARING	SLOPE TOP	SLOPE BOT	ACTIVE PRESSURE	PASSIVE PRESSURE	COEFFICIENT OF FRICTION	SLOPE OF BACK OF WALL	SURCHARGE		
\mathbf{Q}_{a}	β	β_1	Фа	Фр		α	q		
1500 psf	14.3 deg	14.3 deg	30 deg	30 deg	0.3	99.5 deg	0 psf		

					opsf - 6V:1H BA				
WALL	BASE	TOE	BASE	BASE	BATTER	FULLY MORTARED	THICKNESS	DRAINAGE ZONE	BEARING
HEIGHT	WIDTH		DEPTH (TOE)	DEPTH (HEEL)		ZONE	OF WALL	THICKNESS	CAPACIT
Н	В	B1	С	C1	Α	E	T	G	
1' - 0"	1' - 7"	0' - 3"	1' - 0"	0' - 3"	0' - 2"	FULLY	1' - 4"	SEE B/RW1	
2' - 0"	2' - 3"	0' - 4"	1' - 0"	0' - 5"	0' - 4"	FULLY	1' - 11"	SEE B/RW1	
3' - 0"	2' - 11"	0' - 5"	1' - 1"	0' - 6"	0' - 6"	FULLY	2' - 6"	SEE B/RW1	1500 psf
4' - 0"	3' - 3"	0' - 6"	1' - 4"	0' - 7"	0' - 8"	FULLY	2' - 9"	SEE B/RW1	
5' - 0"	3' - 10"	0' - 10"	1' - 9"	0' - 8"	0' - 10"	1' - 0"	3' - 0"	1' - 0"	
6' - 0"	4' - 9"	1' - 1"	2' - 0"	0' - 10"	1' - 0"	1' - 3"	3' - 8"	1' - 0"	
7' - 0"	5' - 8"	1' - 5"	2' - 3"	1' - 0"	1' - 2"	1' - 5"	4' - 3"	1' - 2"	
8' - 0"	6' - 7"	1' - 9"	2' - 6"	1' - 2"	1' - 4"	1' - 7"	4' - 10"	1' - 4"	
				WALL DES	IGN CRITERIA				
BEARING	SLOPE TOP	SLOPE BOT	ACTIVE PRESSURE	PASSIVE PRESSURE	COEFFICIENT OF FRICTION	SLOPE OF BACK OF WALL	SURCHARGE	FIRELANE SURCHARGE	
Q _a	β	β ₁	Фа	Фр		α	q		
1500 psf	14.3 deg	14.3 deg	30 deg	30 deg	0.3	99.5 deg	350 psf		

RW1/1 MASONRY WALL W/ 6V:1H BATTER

POSTS AT 8' - 0" O.C. BY OTHERS.

POST BY OTHER

WALL SECTION W/ FENCE POST

3" DIA. X 24" LONG PVC SLEEVE FOR POST @ AS REQ'D BY OTHER. FULLY MORTAR AROUND SLEEVE.

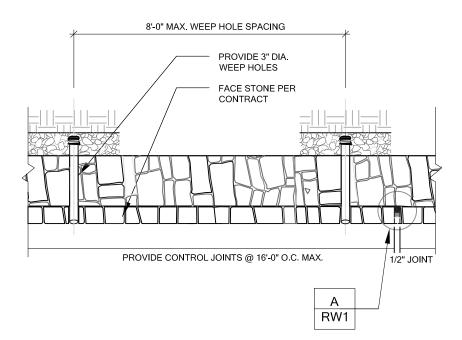
36" LONG #3 BARS FRONT, BACK TOP & BOTTOM

NOTE: DURING INSTALLATION OF

HANDRAIL POST, IF SLEEVE LOCATION DOES NOT MATCH POST LOCATION, IT

RW1/2 MASONRY WALL W/ FIRELANE SURCHARGE

4" EXPANSION _ JOINT MATERIAL



RW1/4

TYPICAL PLAN VIEW AT BASE

As Built

1. Design Building Code

International Building Code, 2012 Edition

2. Geotechnical Report

Firm: PSI Intertek Project No: 03421613 Dated: September 7, 2018

3. Geotechnical Criteria

Bearing on Stiff Natural Undisturbed Clayey Soils or Compacted and Tested Soils Allowable Bearing: 1500psf minimum bearing on native clayey soils.

Backfill Soil Parameters:

Backfill Soil - Natural Clays or Fill Soils

Base Soil Parameters:

Soil at Toe - natural, Undisturbed or Fill Soils

Coefficient of Friction = 0.30

The backfill soil angle of internal friction referred to in the schedule 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 the wall could damage the wall and should be avoided.

Locate base of walls on undisturbed or properly compacted soil.

4. Materials

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.

Contents	Amount	per cubic ya
Type F Fly Ash:	94	lbs.
Fine Aggregate (sand):	3,250	lbs.
Potable Water:	235	lbs.
Type 1 Portland Cement:	376	lbs.
Admixture Eucon 100:	48	oz. averag

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".

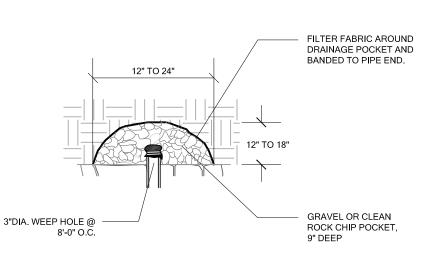
5. Construction Reviews

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

6. Retaining Wall Design Constraints

Retaining walls should not have solid fence placed on top of wall other than that shown on these plans. 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.



LESS THAN 12" IN HEIGH

DIRTSAVER

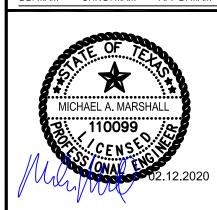
ROCKWAL

UTIO! SITE

RW Ш

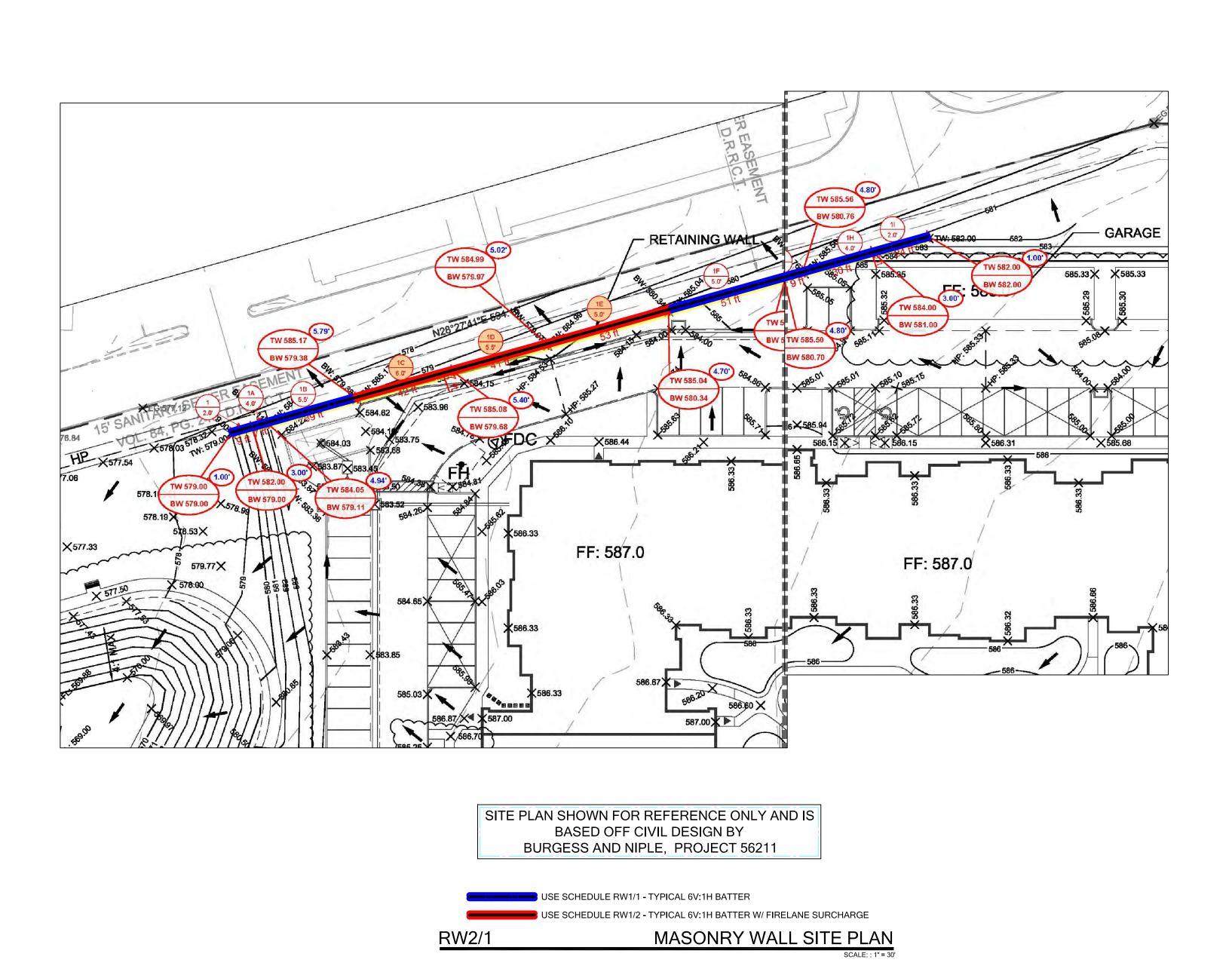
ALDERS

No. Date REVISIONS DB: MAM CHK'D: MAM APP'D: MAM



RETAINING WALL DETAILS AND NOTES

RW021220-3 02.12.2020 Date Last Revision 02.12.2020 RW¹



ALDERS AT ROCKWALL
MASONRY RETAINING WALLS
205 AND JUSTIN ROAD, CITY OF ROCKWALL,

No. Date REVISIONS DB: MAM CHK'D: MAM APP'D: MAM



RETAINING WALL **DETAILS AND NOTES**

Project No.

Date

Last Revision RW021220-3 02.12.2020 02.12.2020 RW2

As Built