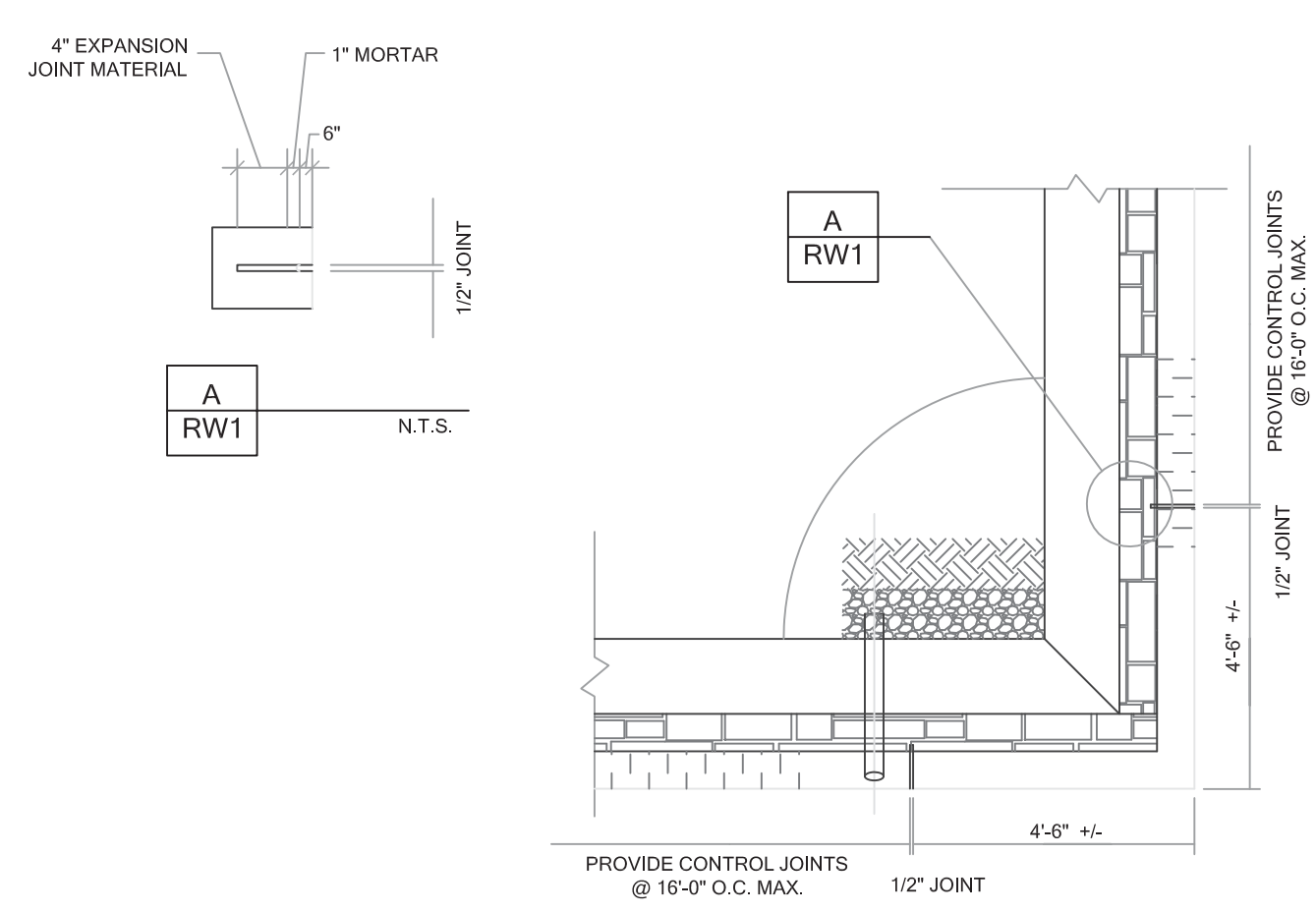
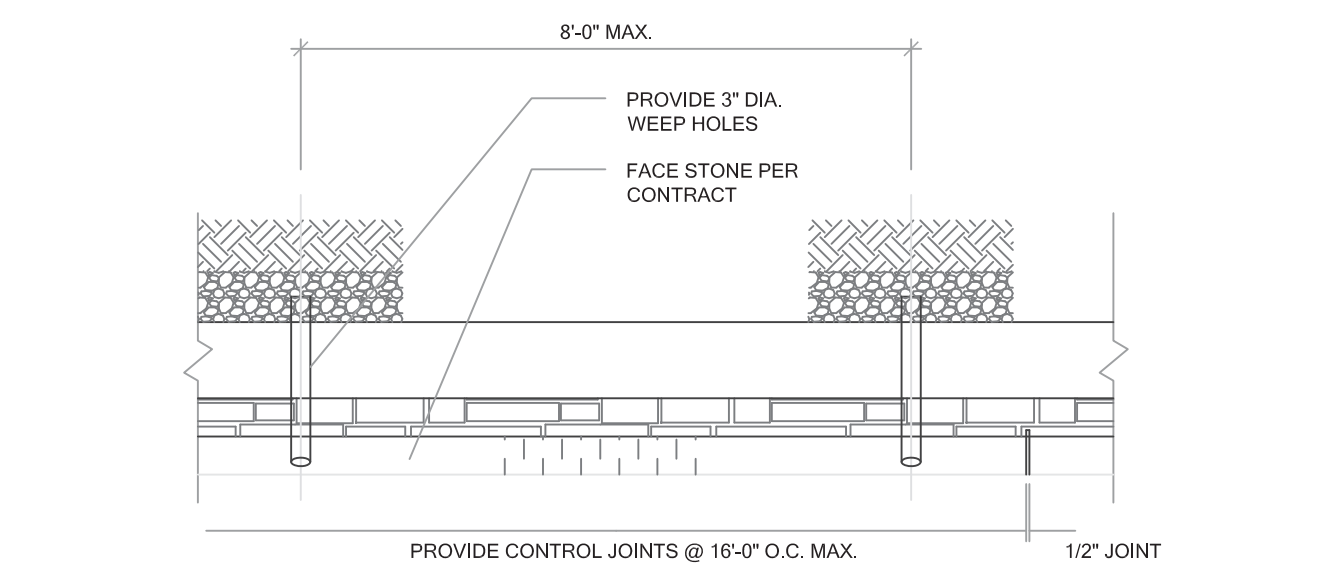


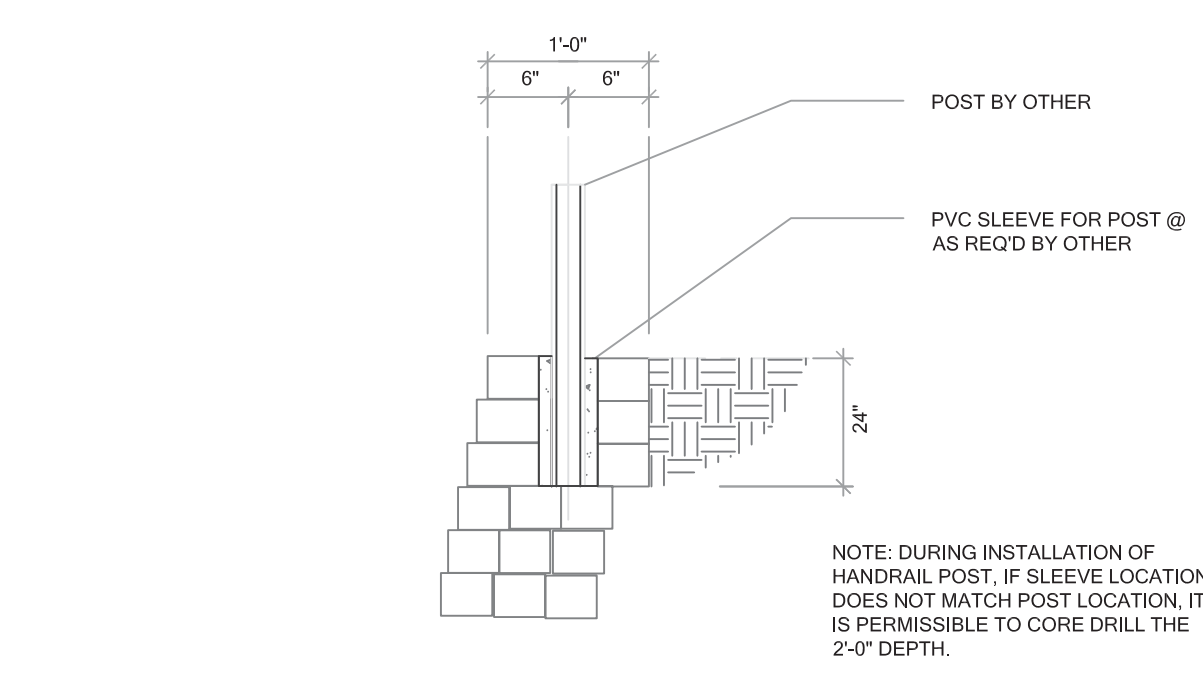
RW1/1 DETAIL OF TYPICAL MASONRY WALL
SCALE: N.T.S.



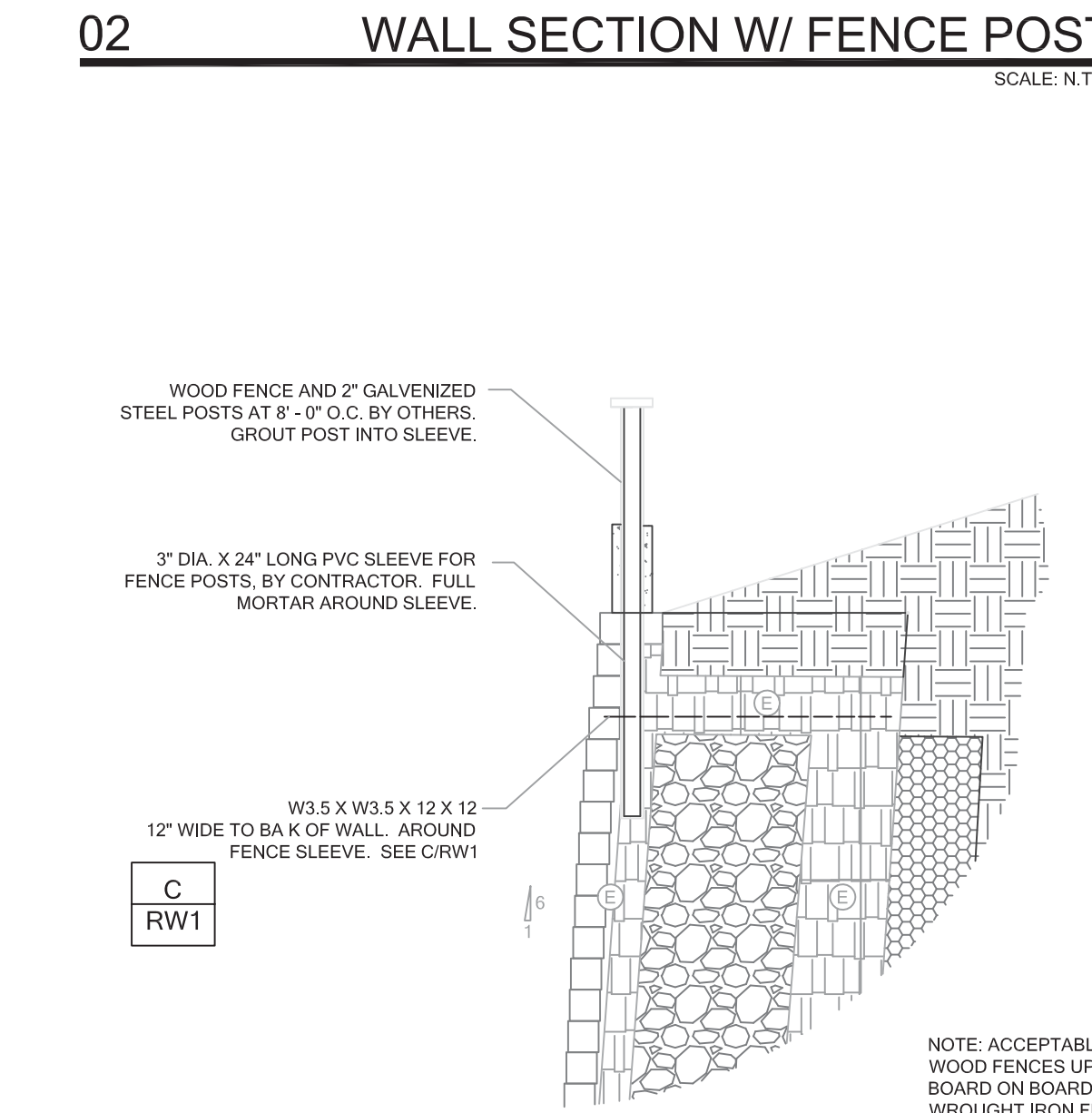
04 TYPICAL PLAN VIEW AT CORNER
SCALE: N.T.S.



05 TYPICAL PLAN VIEW AT BASE
SCALE: N.T.S.



02 WALL SECTION W/ FENCE POST
SCALE: N.T.S.



03 DETAIL OF WALL WITH WELDED WIRE FABRIC FOR FENCE SLEEVE
SCALE: N.T.S.

RW1/1 - MASONRY WALL SCHEDULE -1800 psf									
1800 psf - BEARING CAPACITY (COMPACTED AND TESTED OR NATURAL SOILS)									
WALL HEIGHT	BASE WIDTH	TOE DEPTH (TOE)	BASE DEPTH (HEEL)	BATTER	FULLY MORTARED ZONE	THICKNESS OF WALL	DRAINAGE ZONE THICKNESS	BEARING CAPACITY	
H	B	B1	C	C1	A	E	T	G	
1' - 0"	1' - 0"	0' - 0"	0' - 9"	0' - 2"	0' - 2"	FULLY	1' - 0"	SEE B/RW1	1800 psf
2' - 0"	1' - 4"	0' - 2"	0' - 9"	0' - 2"	0' - 4"	FULLY	1' - 2"	SEE B/RW1	
3' - 0"	1' - 11"	0' - 3"	0' - 10"	0' - 3"	0' - 6"	FULLY	1' - 8"	SEE B/RW1	
4' - 0"	2' - 4"	0' - 4"	1' - 0"	0' - 4"	0' - 8"	FULLY	2' - 0"	SEE B/RW1	

WALL DESIGN CRITERIA							
BEARING	SLOPE TOP	SLOPE BOT	ACTIVE PRESSURE	PASSIVE PRESSURE	FRICTION ANGLE BASE	SLOPE OF BACK OF WALL	SURCHARGE
Q _s	β	β ₁	φ _a	φ _p	δ	α	q
1800 psf	9.5 deg	9.5 deg	30 deg	30 deg	17 deg	99.5 deg	0 psf

RW1/1 MASONRY WALL SCHEDULE
SCALE: N.T.S.

1. Design Building Code
International Building Code, 2009 Edition

2. Geotechnical Report
Firm: EWI
Report No: BH153460R
Dated: May 22, 2015
Allowable Bearing Capacity: 1800psf on undisturbed or properly compacted fill soils.

Note:
An 1800 psf bearing capacity is anticipated throughout the site. Each wall section has a design for multiple bearing capacity options. It will be field verified which bearing condition to use based on the conditions of the soil at the base of the wall during excavation. If the bearing capacity changes along the length of the retaining wall it is permitted to change bearing capacity designs as necessary.

3. Geotechnical Criteria
Bearing on Stiff Natural Undisturbed Clayey Soils or Compacted and Tested Soils
Allowable Bearing: 1800 psf, minimum
Friction Angle between Base of Wall and Soil - 17 degrees

Backfill Soil Parameters:
Backfill Soil - Natural Clays or Fill Soils
Backfill Angle of Internal Friction PHI = 30 degrees

Base Soil Parameters:
Soil at Toe - natural, Undisturbed or Fill Soils
Angle of Internal Friction PHI = 30 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 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 deleterious 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 yard
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. average

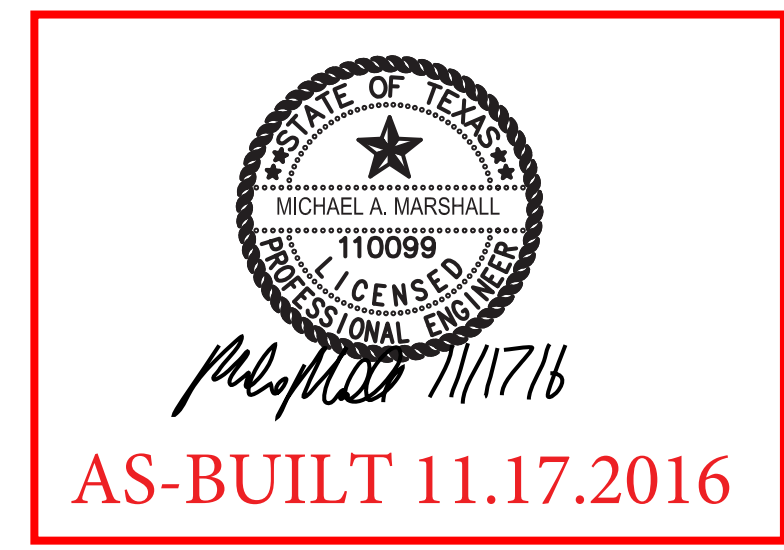
Concrete retarders such as "Eucon 100 Retarder" may be used at the discretion of the masonry wall contractor. A greater amount of retarder (about 64 ounces) is typically used during hot periods and a less amount of retarder (about 32 ounces) is typically used during cool weather.

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.

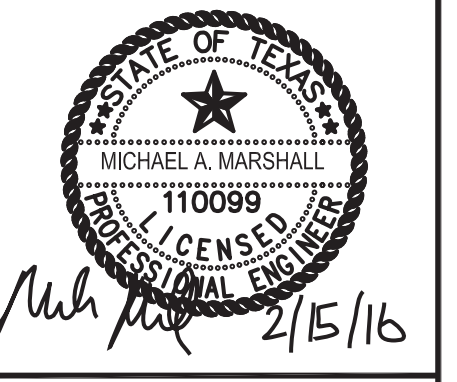


BREEZY HILL PHASE IX
 MASONRY RETAINING WALLS
 ROCKWALL, TEXAS
RPM xCONSTRUCTION, LLC.
 PLANO, TEXAS

No.	Date	Item

REVISIONS

DB: MAM CHKD: MAM APPD: MAM



RETAINING WALL
DETAILS AND NOTES

Project No. RW021516-1
Date 02.15.2016
Last Revision 02.15.2016

RW1