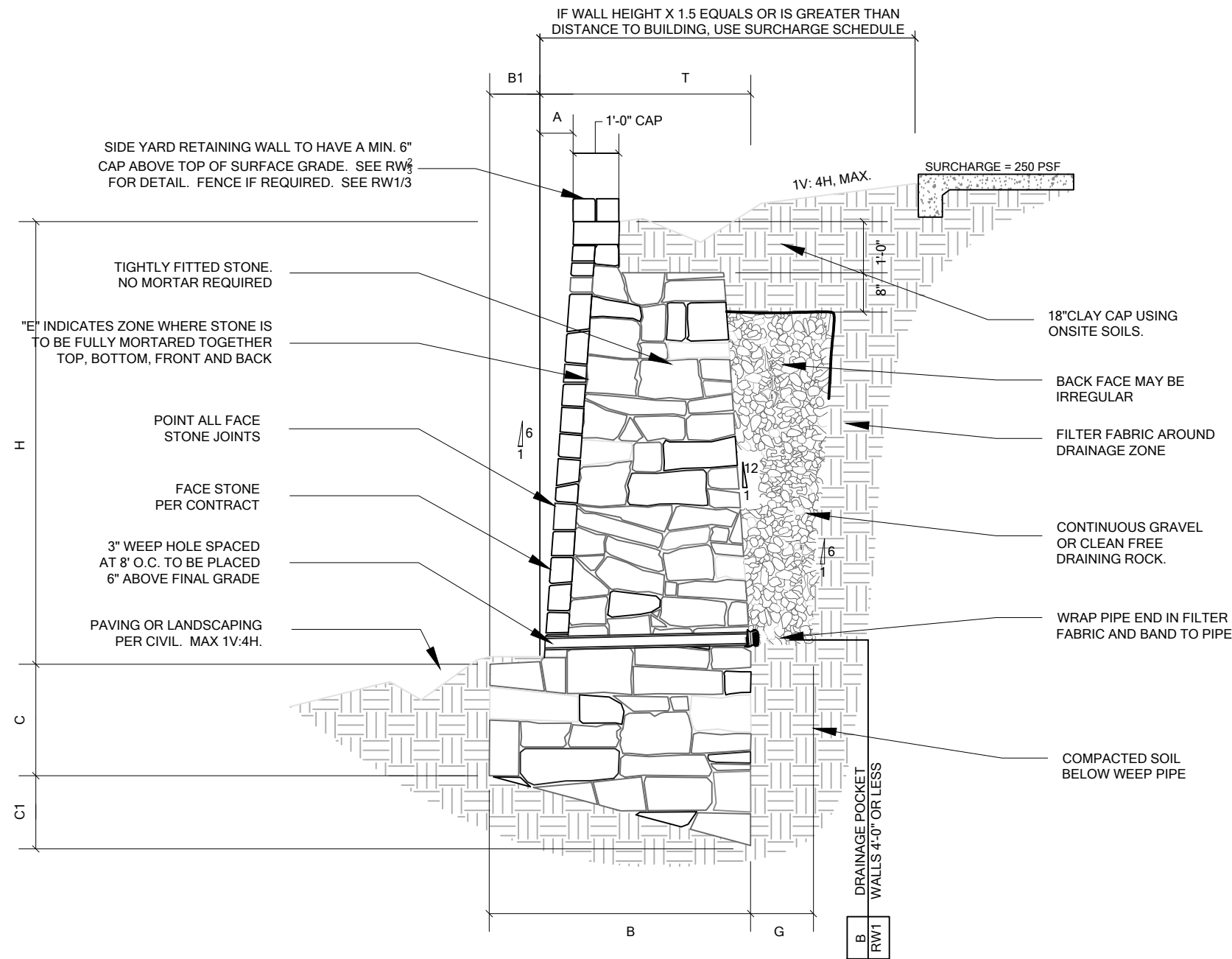


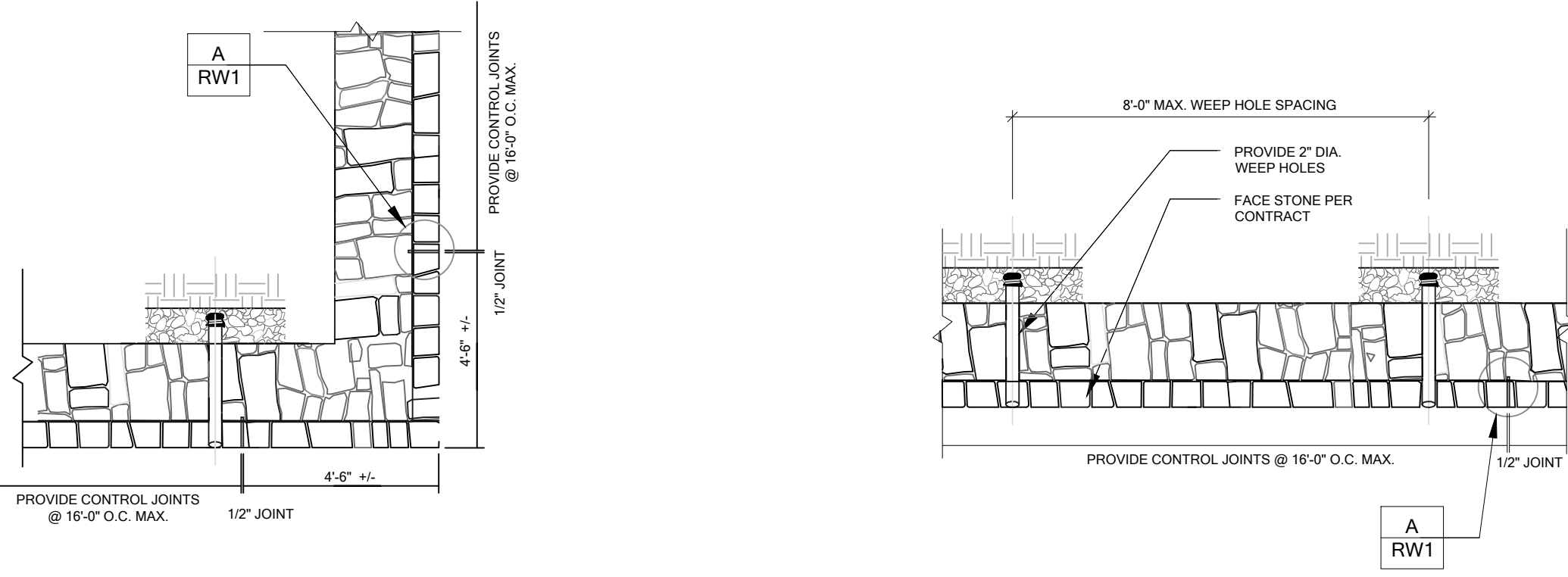


RW1/2 MASONRY WALL SCHEDULE -1100 psf - 6V:1H BATTER - BUILDING SURCHARGE								
BEARING CAPACITY ON NATURAL SOIL OR COMPACTED AND TESTED FILLS								
WALL	BASE	TOE	BASE	BASE	BATTER	THICKNESS	DRAINAGE ZONE	BEARING
HEIGHT	WIDTH		DEPTH (TOE)	DEPTH (HEEL)		OF WALL	THICKNESS	CAPACITY
H	B	B1	C	C1	A	T	G	
1' - 0"	1' - 7"	0' - 3"	1' - 0"	0' - 3"	0' - 2"	1' - 4"	SEE B/RW1	1100 psf
2' - 0"	2' - 2"	0' - 4"	1' - 0"	0' - 5"	0' - 4"	1' - 10"	SEE B/RW1	
3' - 0"	2' - 8"	0' - 5"	1' - 2"	0' - 6"	0' - 6"	2' - 3"	SEE B/RW1	
4' - 0"	3' - 3"	0' - 6"	1' - 4"	0' - 7"	0' - 8"	2' - 9"	SEE B/RW1	
5' - 0"	3' - 11"	0' - 11"	1' - 7"	0' - 8"	0' - 10"	3' - 0"	1' - 0"	
6' - 0"	4' - 11"	1' - 4"	1' - 10"	0' - 10"	1' - 0"	3' - 7"	1' - 0"	
7' - 0"	6' - 1"	1' - 11"	2' - 2"	1' - 1"	1' - 2"	4' - 2"	1' - 3"	
8' - 0"	7' - 3"	2' - 4"	2' - 6"	1' - 3"	1' - 4"	4' - 11"	1' - 6"	
9' - 0"	8' - 4"	2' - 10"	2' - 9"	1' - 6"	1' - 6"	5' - 6"	1' - 9"	1250 psf
10' - 0"	9' - 4"	3' - 4"	3' - 0"	1' - 8"	1' - 8"	6' - 0"	2' - 0"	
11' - 0"	10' - 2"	3' - 7"	3' - 3"	1' - 10"	1' - 10"	6' - 7"	2' - 0"	
12' - 0"	10' - 11"	3' - 8"	3' - 6"	1' - 11"	2' - 0"	7' - 3"	2' - 0"	
13' - 0"	11' - 8"	3' - 8"	3' - 9"	2' - 1"	2' - 2"	8' - 0"	2' - 0"	
WALL DESIGN CRITERIA								
BEARING	SLOPE TOP	SLOPE BOT	ACTIVE PRESSURE	PASSIVE PRESSURE	COEFFICIENT OF FRICTION	SURCHARGE	BUILDING SURCHARGE	
Q _a	β	β ₁	Φ _a	Φ _p		q		
1100 psf	18.3 deg	14.3 deg	30 deg	30 deg	0.3	250 psf		

RW1/2

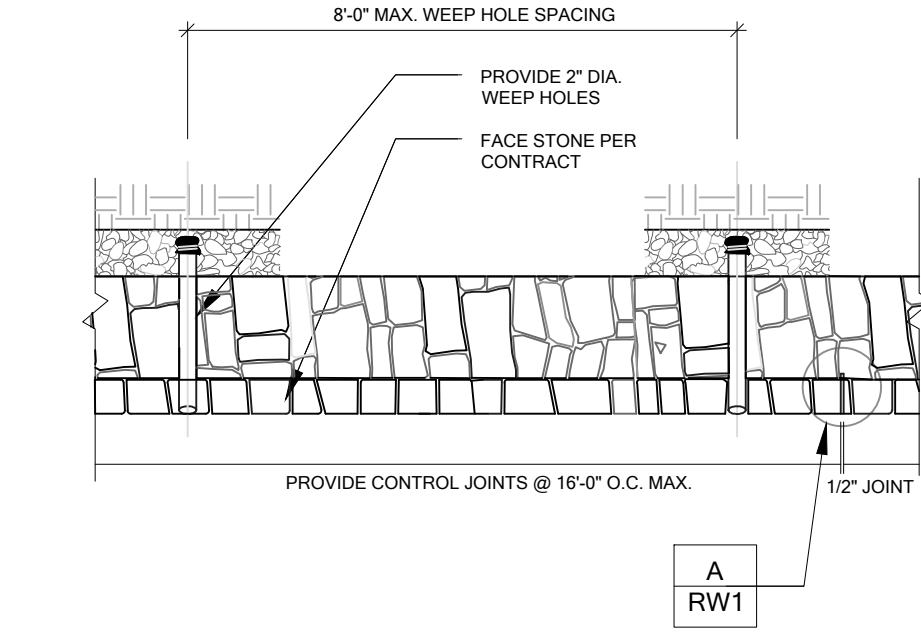
MASONRY WALL W/ 6V:1H BATTER
AND BUILDING SURCHARGE

SCALE: N.T.S



RW1/4 TYPICAL PLAN VIEW AT CORNER

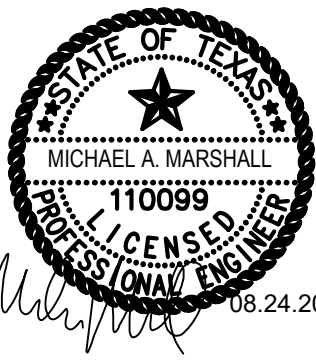
SCALE: N.T.S.



RW1/5 TYPICAL PLAN VIEW AT BASE

B	DRAINAGE POCKET WALLS 18" TO 48"	
RW1	NOT REQUIRED FOR WALLS 18" AND UNDER	N.T.S.

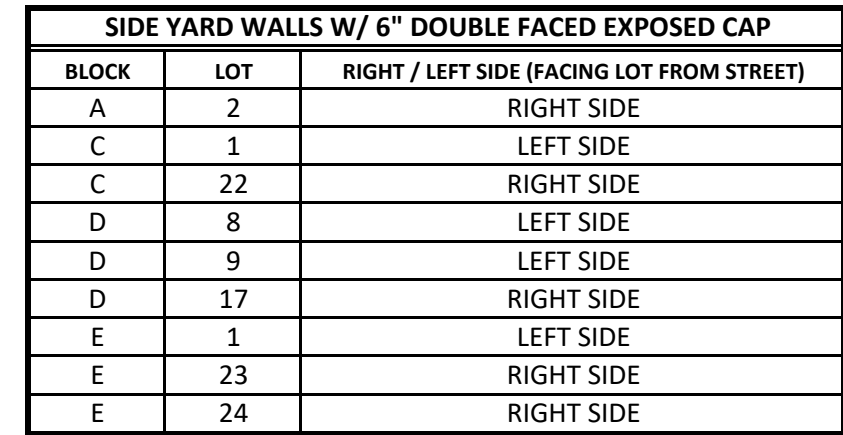
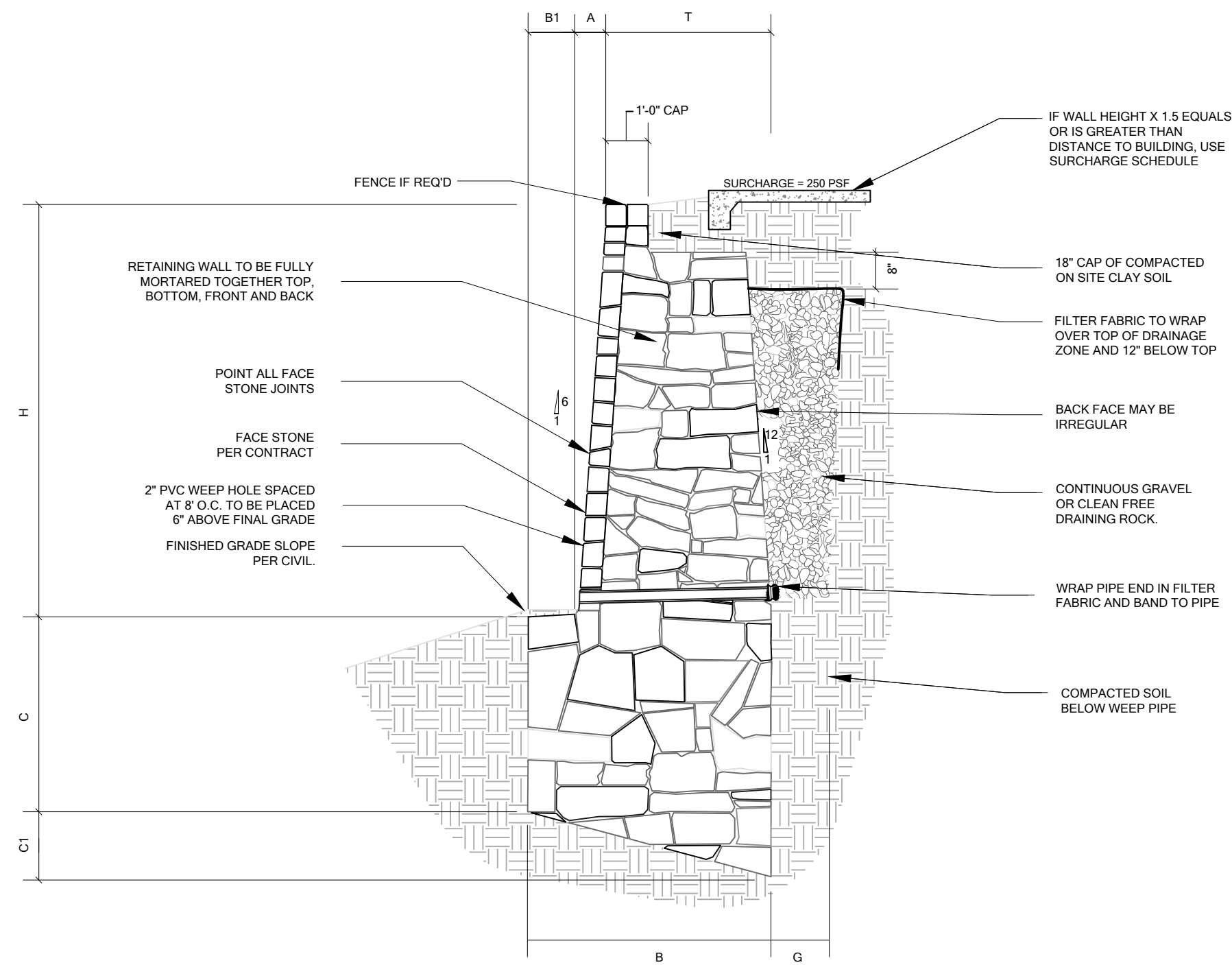
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		



RETAINING WALL DETAILS AND NOTES

Project No.	RW052722-
Date	05.27.2022
Last Revision	08.24.2022

RW1



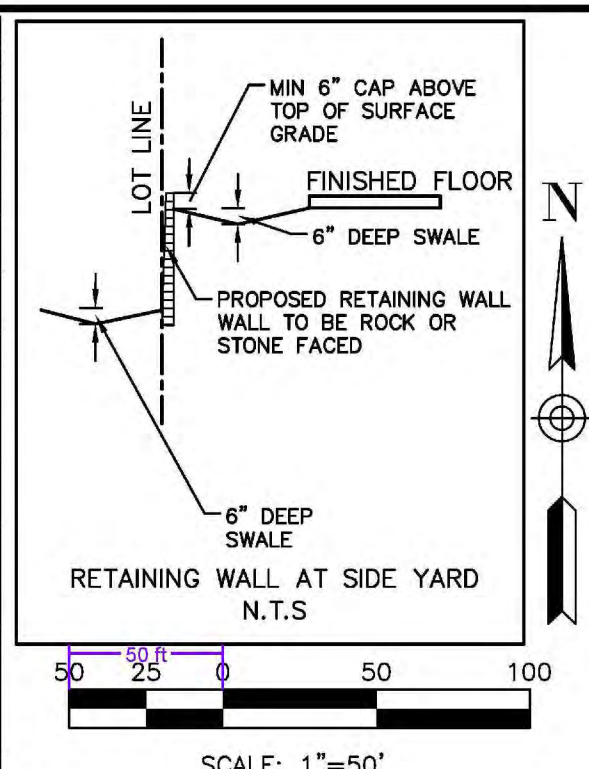
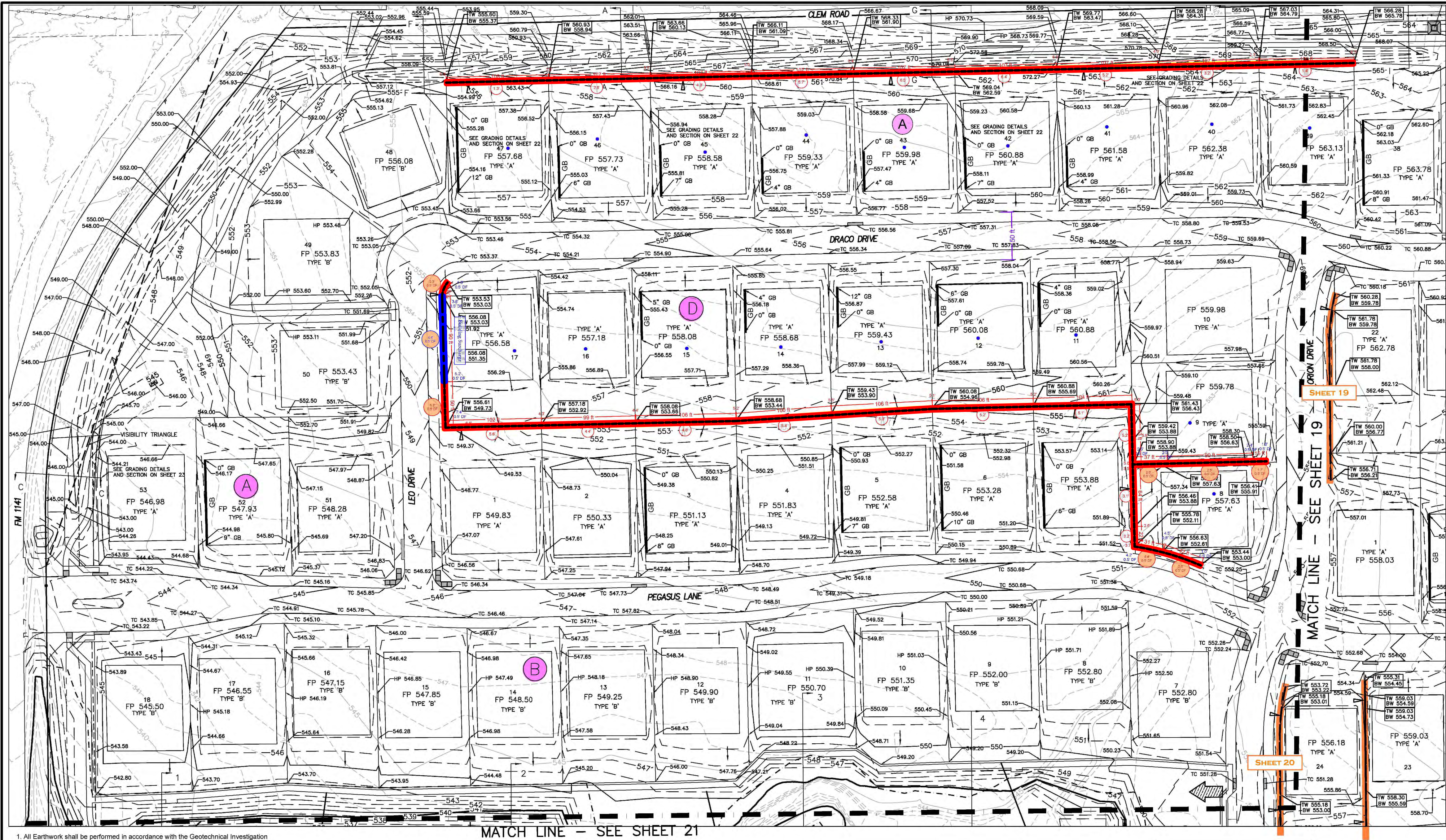
RW2/2 MASONRY WALL SCHEDULE -1500 psf - 6V:1H BATTER								
BEARING CAPACITY ON NATURAL SOIL OR COMPACTED AND TESTED FILLS								
WALL	BASE	TOE	BASE	BASE	BATTER	THICKNESS	DRAINAGE ZONE	BEARING
HEIGHT	WIDTH		DEPTH (TOE)	DEPTH (HEEL)		OF WALL	THICKNESS	CAPACITY
H	B	B1	C	C1	A	T	G	
1' - 0"	1' - 6"	0' - 3"	1' - 9"	0' - 3"	0' - 2"	1' - 3"	SEE B/RW1	1100 psf
2' - 0"	2' - 2"	0' - 6"	1' - 10"	0' - 5"	0' - 4"	1' - 8"	SEE B/RW1	
3' - 0"	2' - 10"	0' - 6"	1' - 11"	0' - 6"	0' - 6"	2' - 4"	SEE B/RW1	
4' - 0"	3' - 8"	0' - 10"	2' - 0"	0' - 8"	0' - 8"	2' - 10"	SEE B/RW1	
5' - 0"	4' - 6"	1' - 0"	2' - 0"	0' - 10"	0' - 10"	3' - 6"	1' - 0"	
6' - 0"	5' - 4"	1' - 6"	2' - 2"	0' - 11"	1' - 0"	3' - 10"	1' - 0"	
7' - 0"	6' - 4"	1' - 10"	2' - 4"	1' - 1"	1' - 2"	4' - 6"	1' - 3"	
8' - 0"	7' - 4"	2' - 1"	2' - 6"	1' - 4"	1' - 4"	5' - 3"	1' - 6"	
9' - 0"	8' - 4"	2' - 6"	2' - 9"	1' - 6"	1' - 6"	5' - 10"	1' - 9"	
10' - 0"	9' - 3"	3' - 1"	3' - 0"	1' - 8"	1' - 8"	6' - 2"	2' - 0"	
11' - 0"	10' - 3"	3' - 3"	3' - 3"	1' - 10"	1' - 10"	7' - 0"	2' - 0"	1200 psf
12' - 0"	11' - 0"	3' - 6"	3' - 6"	1' - 11"	2' - 0"	7' - 6"	2' - 0"	1250 psf
13' - 0"	11' - 9"	3' - 6"	3' - 9"	2' - 1"	2' - 2"	8' - 3"	2' - 0"	1350 psf
1500 psf	14.3 deg	14.3 deg	30 deg	30 deg	0.25	250 psf		1500 psf
WALL DESIGN CRITERIA								
BEARING	SLOPE TOP	SLOPE BOT	ACTIVE PRESSURE	PASSIVE PRESSURE	COEFFICIENT OF FRICTION	SURCHARGE	DRAINAGE AREAS WITH SURCHARGE	
Q _a	β	β ₁	Φ _a	Φ _p		q		
1500 psf	14.3 deg	14.3 deg	30 deg	30 deg	0.25	250 psf		

MASONRY WALL W/ 6V:1H BATTER,
RW2/2 SURCHARGED AT OR NEAR 100 YR FLOODPLAIN

SCALE: N.T.S.

WINDING CREEK
MASONRY RETAINING WALLS
CITY OF ROCKWALL, TEXAS

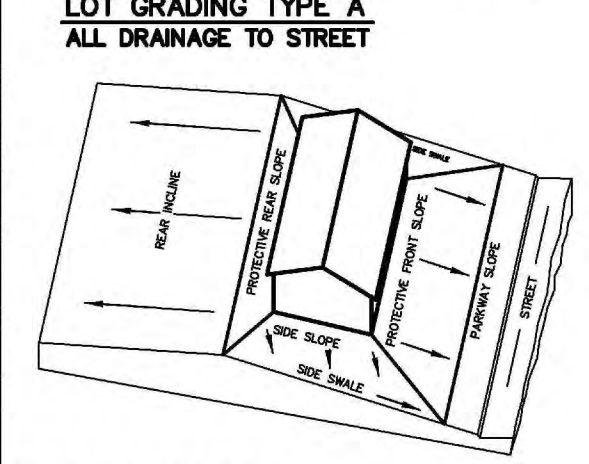
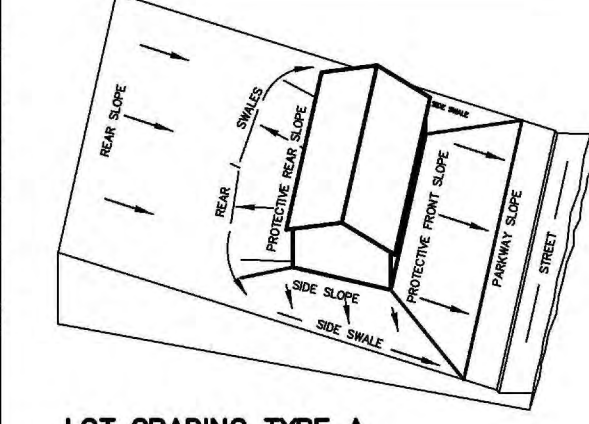
RW2



FINAL FINISHED FLOOR ELEVATIONS SHALL BE A MINIMUM OF 6" ABOVE THE FINISHED PAD (FP) ELEVATIONS SHOWN ON THESE PLANS.

PROPOSED CONTOURS ARE SHOWN FOR REFERENCE ONLY. THE SITE SHALL BE GRADED PER SPOT SHOTS PROVIDED.

UNLESS OTHERWISE NOTED, ALL WALLS END AT 6" HEIGHT & THE ELEVATION SHOWN IS THE BOTTOM OF WALL ELEVATION



LOT GRADING TYPE B DRAINAGE TO STREET & REAR LOT LINE



1. All Earthwork shall be performed in accordance with the Geotechnical Investigation prepared by Terradyne, dated August 24, 2021. A copy of the Geotechnical Investigation can be obtained by contacting Macatee Engineering, LLC at (214) 373-1180.

Site Preparation

2. All trees, stumps, brush, abandoned structures, roots, vegetation, rubbish and any other undesirable matter should be properly removed and disposed of.

3. Fill Materials Off-site materials to be used for fill should be approved by the Soils Engineer. There should be no roots, vegetation or any other undesirable matter in the soil, and no rocks larger than six (6) inches in diameter.

Depth of Mixing of Fill Layers

4. The fill material should be placed in level, uniform layers, which, when compacted, should have a moisture content and density conforming to the stipulations called for in the Geotechnical Investigation. Each layer should be thoroughly mixed during the spreading to insure the uniformity of the layer.

Rock

5. There should be no rock incorporated within the fill which exceeds six (6) inches in its greatest dimension, and no large rocks will be permitted within twelve (12) inches of the finished subgrade.

Compaction of Fill Layers

6. Compaction equipment should be of such design that it will be able to compact the fill to the specified density. Compaction of each layer shall be continuous over its entire area at a minimum 95% standard proctor density using a sheep's foot roller.

Density Tests

7. Field Density tests should be made by the Soils Engineer or his representative. Density tests should be taken in the compacted material below the disturbed surface. After each layer of fill, compaction tests, as necessary, should be made by the Soils Engineer. If the materials fail to meet the density specified, the courses should be reworked as necessary to obtain the specified compaction.

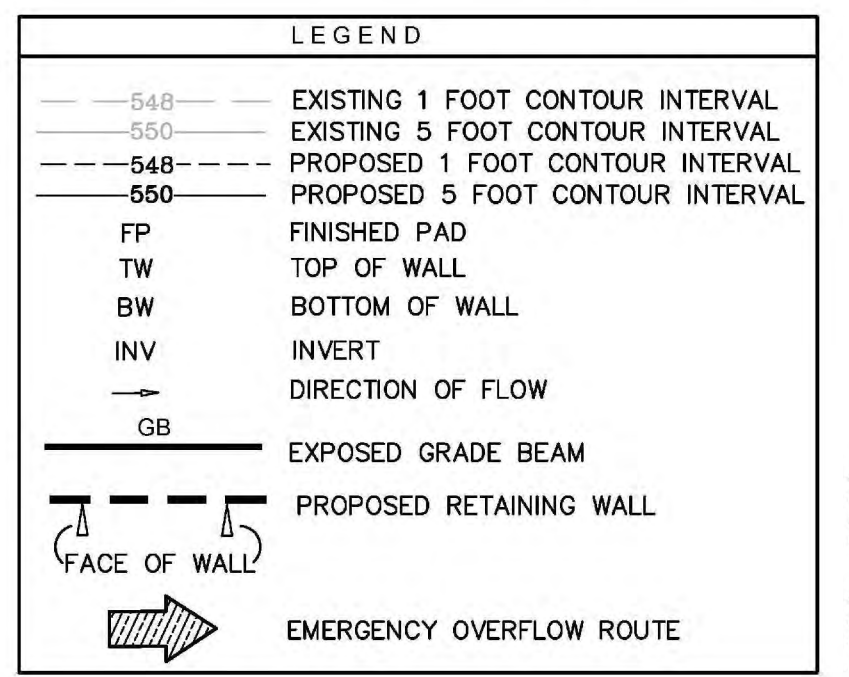
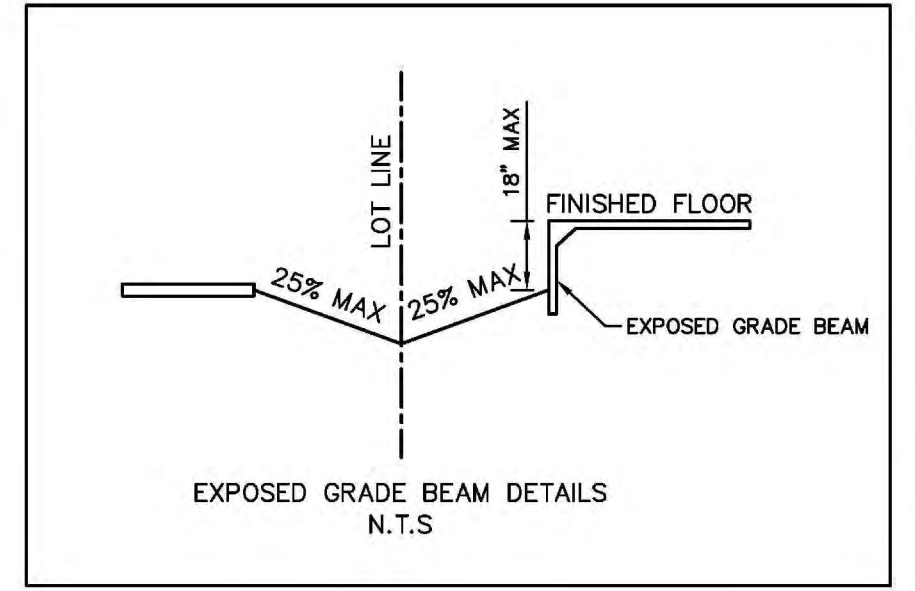
Supervision

8. Supervision by the Soils Engineer should be of such continuity during the grading operation that he can certify that all cut and filled areas were graded in accordance with the accepted specifications.

9. All areas shall be graded to drain.

10. Subgrade Preparation-Paved Areas In areas to be paved, Contractor shall reestablish the specified moisture content and density within 72 hours of paving operations.

11. Accommodation of landscaping Finished Grades must be maintained after the installation of landscaping. The Landscaper must ensure positive drainage away from all buildings.



THERE ARE NO DROP GARAGES REQUIRED FOR THIS DEVELOPMENT

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

CITY OF ROCKWALL MONUMENT "COR-2" ALUMINUM DISK STAMPED "CITY OF ROCKWALL, TEXAS" EAST OF INTERSECTION OF WILLIAMS ST. & CL OF WILLIAMS STREET, N. 7029-73

CITY OF ROCKWALL MONUMENT "COR-4" ALUMINUM DISK STAMPED "CITY OF ROCKWALL, TEXAS" EAST OF INTERSECTION OF WILLIAMS ST. & CL OF WILLIAMS STREET, N. 7040

RCO#1
6/13/22
TREY B.

GRADING PLAN

WINDING CREEK

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

MACATEE
CIVIL ENGINEERING

CIVIL ENGINEERING
DESIGN & CONSULTING
(Tex. Reg. No. F-456)
12655 N. CENTRAL EXPWAY, SUITE 420
DALLAS, TEXAS 75243
TEL 214-373-1180 * FAX 214-373-6580
daytonm@macatee-engineering.com
philipip@macatee-engineering.com

DESIGNED	CHECKED	DATE	DWG FILE	PROJECT #	SHEET NO.
BCP	SDA	05/02/2022	WC Grading	SKO_WC	18 OF 53

RETAINING WALL LAYOUT SHOWN FOR REFERENCE ONLY AND IS BASED OF CIVIL DESIGN BY MACATEE CIVIL ENGINEERING

- RW1/1 RETAINING WALL LOCATION W/ TYPICAL BATTER
- RW1/2 RETAINING WALL W/ BUILDING SURCHARGE
- RW2/1 RETAINING WALL AT OR NEAR 100 YR FLOODPLAIN
- RW2/2 RETAINING WALL W/ BUILDING SURCHARGE AT OR NEAR 100 YR FLOODPLAIN

RW3/1 MASONRY WALL SITE LAYOUT

DRTSAVERS

PO BOX 566
ALEDO, TX 76008
PH: 469.834.7446
F: 414138

WINDING CREEK

MASONRY RETAINING WALLS

CITY OF ROCKWALL, TEXAS

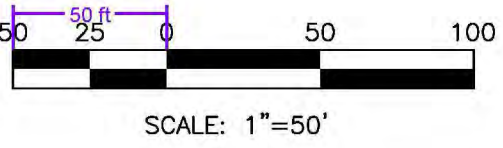
08.09.2022	ADD RW2/3 - UPDATED LAYOUT
No. Date	Item
REVISIONS	
DB: MAM	CHKD: MAM
APPD: MAM	



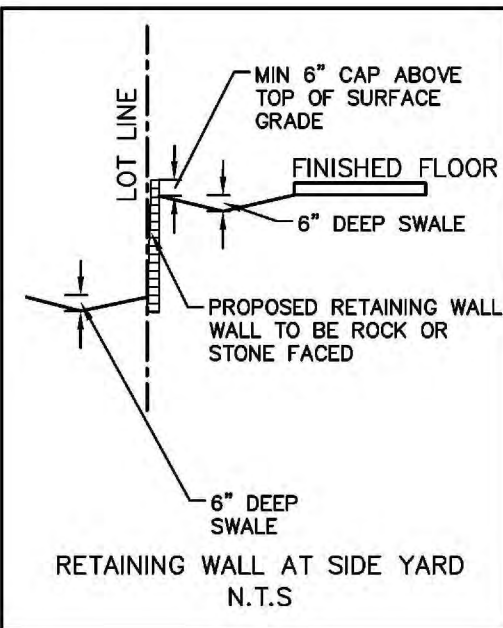
RETAINING WALL DETAILS AND NOTES

Project No. RW052722-1
Date 05.27.2022
Last Revision 08.09.2022

RW3



UNLESS OTHERWISE NOTED,
ALL WALLS END AT 6" HEIGHT
& THE ELEVATION SHOWN IS
THE BOTTOM OF WALL
ELEVATION



WINDING CREEK
MASONRY RETAINING WALLS
CITY OF ROCKWALL, TEXAS

RW5

RW5/1 MASONRY WALL SITE LAYOUT

