

SEE SHEET C4 2 (MATCHLINE)

DATE: 04-13-23

BY: JAJ

DATE: 04-13-23

CHK: JAJ

DATE: 04-13-23

DRN: VR

DATE: 04-13-23

DES: JAJ

NO. DATE

REVISION

BY

MASONRY RETAINING WALLS - SITE PLAN

SEEPIED ROCKWALL ADDITION

ROCKWALL, TEXAS

RPM xCONSTRUCTION, LLC

MCKINNEY, TEXAS

STATE OF TEXAS

JORGE A JIMENEZ

135575

04-13-23

JOB NO. 259.23

SP1

Falkofsky Engineering, Inc.

Structural Engineering Consultants

TX Reg. Engineering Firm F-4038

722 North Fielder Road

Arlington, Texas 76012

(817) 261-8300

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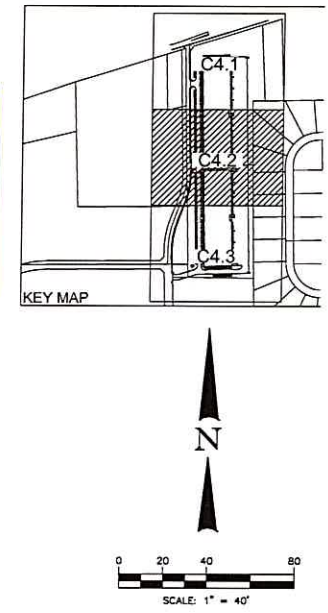
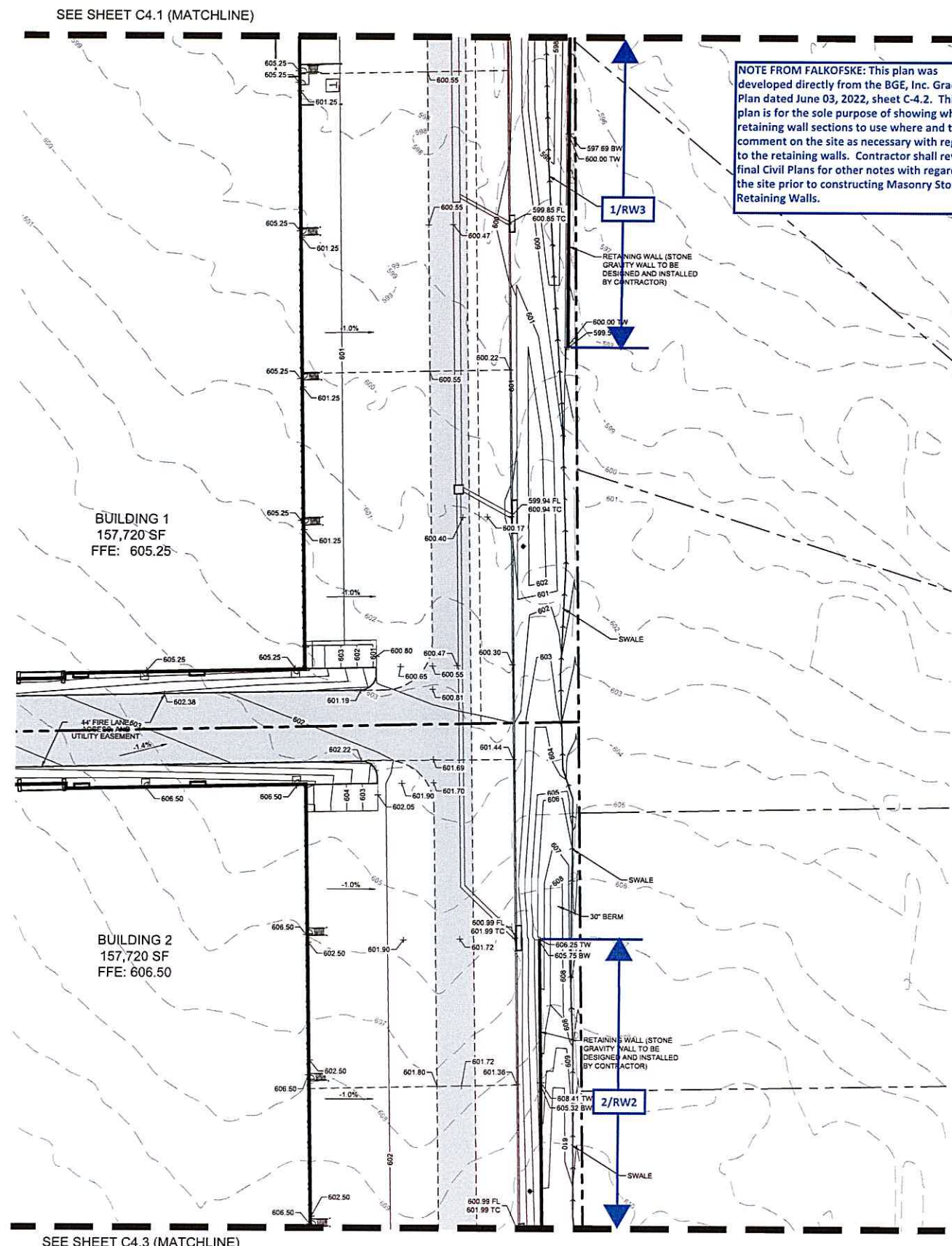
AS BUILT - RECORD DOCUMENTS

CERTIFIED CORRECT

BY: RL DATE: 1/3/25

PROJECT: Rockwall Park 30





DATE

BY

04-13-23

JAJ

DES.

DRN.

CHK.

04-13-23

VR

04-13-23

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DATE

REVISION

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Structural Engineering Consultants  
TX Reg. Engineering Firm F-4038  
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Arlington, Texas 76012  
(817) 261-8300

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MASONRY RETAINING WALLS - SITE PLAN  
SEERFED ROCKWALL ADDITION  
ROCKWALL, TEXAS

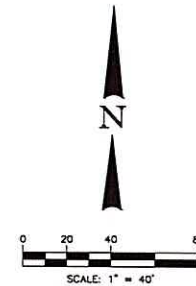
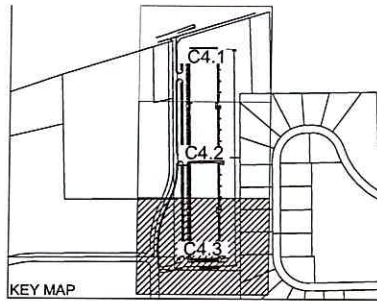
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MCKINNEY, TEXAS

04-13-23

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SP2

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BY: RL DATE: 1/13/25  
PROJECT: Rockwall Park 30



**NOTE FROM FALKOFSKE:** This plan was developed directly from the BGE, Inc. Grading Plan dated June 03, 2022, sheet C-4.3. This plan is for the sole purpose of showing what retaining wall sections to use where and to comment on the site as necessary with regards to the retaining walls. Contractor shall review final Civil Plans for other notes with regard to the site prior to constructing Masonry Stone Retaining Walls.

<div></div>		MASONRY RETAINING WALLS – SITE PLAN SEEFRIED ROCKWALL ADDITION ROCKWALL, TEXAS		RPM xCONSTRUCTION, LLC MCKINNEY, TEXAS		<p>The use of these plans and specifications shall be restricted to the project and location hereon. No other use, reproduction, or alteration is permitted. Any use, reproduction, or alteration without the written consent of FALKOFSKE ENGINEERING, INC. is prohibited. These drawings are a specification and shall not be used for construction or disclosure by any method, in whole or in part, without the written consent of FALKOFSKE ENGINEERING, INC. These drawings and specifications are the property of FALKOFSKE ENGINEERING, INC. and shall remain the property of FALKOFSKE ENGINEERING, INC.</p>		<div><b>FALKOFSKE</b> ENGINEERING</div>		Falkofske Engineering, Inc. Structural Engineering Consultants TX Reg. Engineering Firm F-4038 722 North Fielder Road Arlington, Texas 76012 (817) 261-8300		DES. 04-13-23 JAJ	BY						
JOB NO. 259.23 SP3										DRN. 04-13-23 VR									
										CHK. 04-13-23 JAJ									
												NO. DATE		REVISION		BY			

JOB NO. 259.23

SP3

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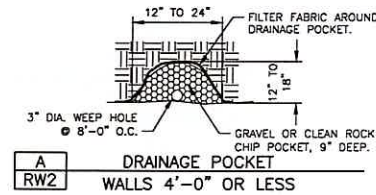
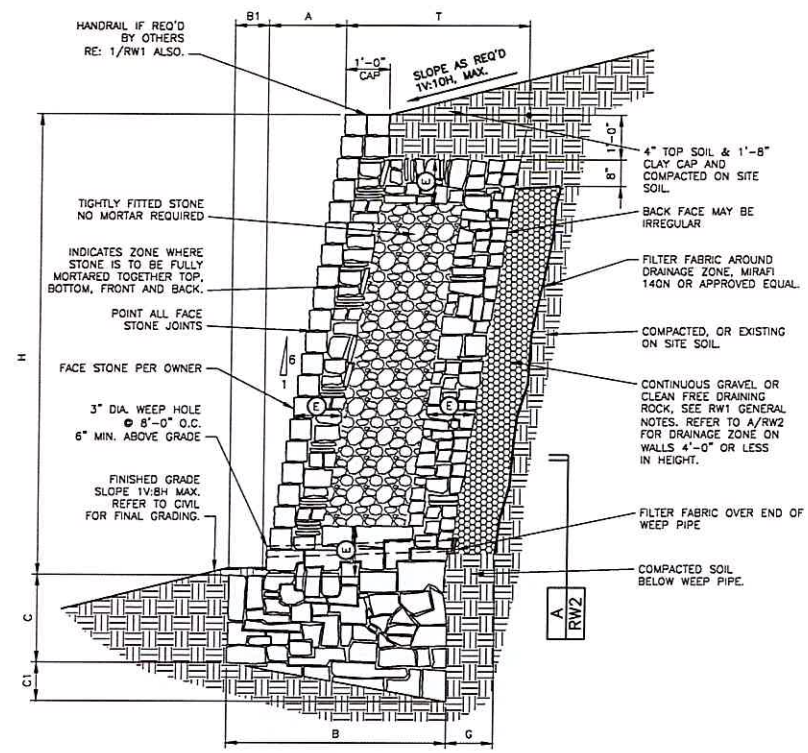
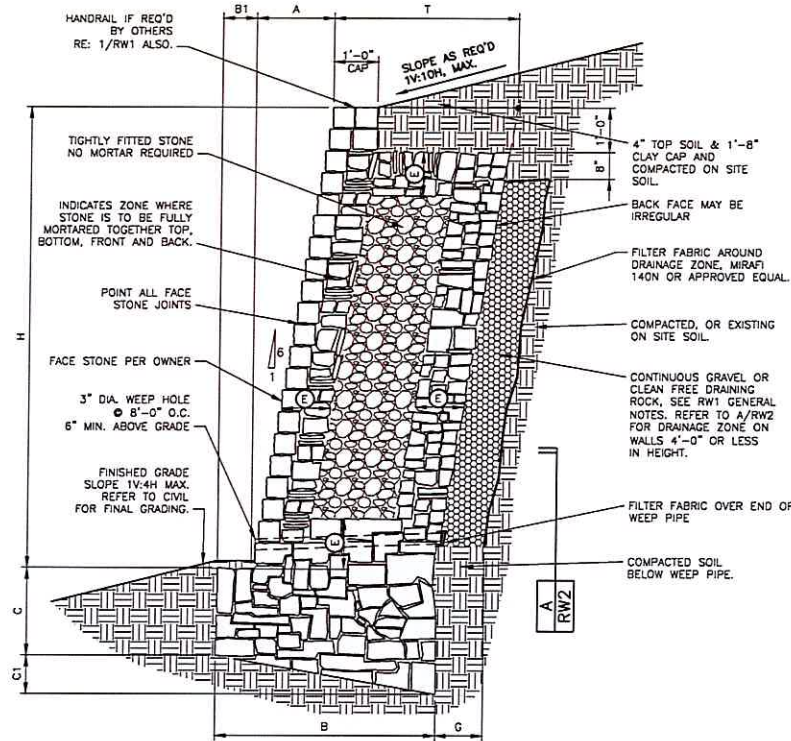
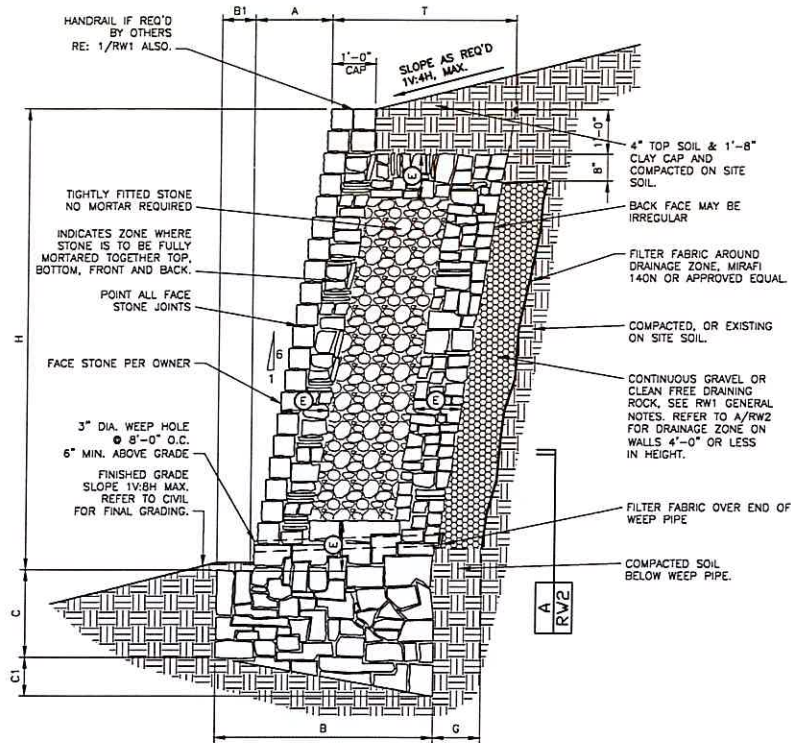
BY: RL DATE: 1/3/25

**PROJECT:** Rockwall Park 30



## RW 1





MASONRY WALL SCHEDULE									
1500 psf - BEARING CAPACITY (HARD NATURAL UNDISTURBED SOILS SEE GENERAL NOTES SHEET RW1)									
WALL HEIGHT H	BASE WIDTH B	TOE B1	BASE DEPTH (TOE) C	BASE DEPTH (HEEL) C1	BATTER A	FULLY MORTARED ZONE E	THICKNESS OF WALL T	DRAINAGE ZONE THICKNESS G	BEARING CAPACITY
1'-0"	1'-2"	0'-2"	0'-6"	0'-3"	0'-2"	FULLY MORTARED	1'-0"	SEE A/RW2	1500 psf
2'-0"	1'-3"	0'-2"	0'-9"	0'-3"	0'-4"	FULLY MORTARED	1'-1"	SEE A/RW2	
3'-0"	1'-8"	0'-3"	0'-9"	0'-4"	0'-6"	FULLY MORTARED	1'-6"	SEE A/RW2	
4'-0"	2'-7"	0'-4"	1'-0"	0'-6"	0'-8"	FULLY MORTARED	2'-3"	SEE A/RW2	
5'-0"	3'-1"	0'-5"	1'-6"	0'-7"	0'-10"	0'-8"	2'-8"	1'-0"	
6'-0"	3'-10"	0'-7"	1'-9"	0'-9"	1'-0"	0'-10"	3'-3"	1'-0"	
WALL DESIGN CRITERIA									
BEARING Q <sub>u</sub>	SLOPE TOP β	SLOPE BOT β <sub>1</sub>	ACTIVE PRESSURE P <sub>a</sub>	PASSIVE PRESSURE P <sub>p</sub>	FRICTION ANGLE BASE δ	SLOPE OF BACK OF WALL α	SURCHARGE q		
1500PSF	14 deg	7.13 deg	26 deg	26 deg	17 deg	99.46 deg	0 psf		

USE THIS SCHEDULE FOR 3/RW2

MASONRY WALL SCHEDULE									
3500 psf - BEARING CAPACITY (REGULATED BASES - SEE GENERAL NOTES SHEET RW1)									
WALL HEIGHT H	BASE WIDTH B	TOE B1	BASE DEPTH (TOE) C	BASE DEPTH (HEEL) C1	BATTER A	FULLY MORTARED ZONE E	THICKNESS OF WALL T	DRAINAGE ZONE THICKNESS G	BEARING CAPACITY
1'-0"	1'-2"	0'-2"	1'-0"	0'-3"	0'-2"	FULLY MORTARED	1'-0"	SEE A/RW2	2500 psf
2'-0"	1'-2"	0'-2"	1'-0"	0'-3"	0'-4"	FULLY MORTARED	1'-0"	SEE A/RW2	
3'-0"	1'-8"	0'-3"	1'-3"	0'-4"	0'-6"	FULLY MORTARED	1'-5"	SEE A/RW2	
4'-0"	2'-3"	0'-4"	1'-9"	0'-5"	0'-8"	FULLY MORTARED	1'-11"	SEE A/RW2	
5'-0"	2'-9"	0'-5"	2'-6"	0'-6"	0'-10"	0'-8"	2'-4"	1'-0"	
6'-0"	3'-4"	0'-7"	3'-6"	0'-8"	1'-0"	0'-10"	2'-9"	1'-0"	
7'-0"	3'-11"	0'-8"	4'-6"	0'-9"	1'-2"	0'-10"	3'-3"	1'-0"	
8'-0"	4'-8"	0'-10"	5'-6"	0'-10"	1'-4"	1'-0"	3'-10"	1'-0"	
WALL DESIGN CRITERIA									
BEARING $Q_u$	SLOPE TOP $\beta$	SLOPE BOT $\beta_1$	ACTIVE PRESSURE $P_a$	PASSIVE PRESSURE $P_p$	FRICTION ANGLE BASE $\delta$	SLOPE OF BACK OF WALL $\alpha$	SURCHARGE $q$		
2500PSF	5.71 deg	14 deg	26 deg	26 deg	17 deg	99.46 deg	0 psf		

USE THIS SCHEDULE FOR 2/RW2

MASONRY WALL SCHEDULE										
1500 psf - BEARING CAPACITY (STIFF NATURAL UNDISTURBED SOILS SEE GENERAL NOTES SHEET RW1)										
WALL HEIGHT H	BASE WIDTH B	TOE B1	BASE DEPTH (TOE) C	BASE DEPTH (HEEL) C1	BATTER A	FULLY MORTARED ZONE E	THICKNESS OF WALL T	DRAINAGE ZONE THICKNESS G	BEARING CAPACITY	
1'-0"	1'-2"	0'-2"	0'-6"	0'-3"	0'-2"	FULLY MORTARED	1'-0"	SEE A/RW2	1500 p	
2'-0"	1'-2"	0'-2"	0'-9"	0'-3"	0'-4"	FULLY MORTARED	1'-0"	SEE A/RW2		
3'-0"	1'-7"	0'-3"	0'-9"	0'-4"	0'-6"	FULLY MORTARED	1'-4"	SEE A/RW2		
4'-0"	2'-3"	0'-4"	1'-0"	0'-5"	0'-8"	FULLY MORTARED	1'-11"	SEE A/RW2		
5'-0"	2'-9"	0'-5"	1'-3"	0'-6"	0'-10"	0'-8"	2'-4"	1'-0"		
6'-0"	3'-5"	0'-7"	1'-6"	0'-8"	1'-0"	0'-10"	2'-10"	1'-0"		
WALL DESIGN CRITERIA										
BEARING Q <sub>u</sub>	SLOPE TOP β	SLOPE BOT β <sub>1</sub>	ACTIVE PRESSURE P <sub>a</sub>	PASSIVE PRESSURE P <sub>p</sub>	FRICTION ANGLE BASE δ	SLOPE OF BACK OF WALL α	SURCHARGE q			
1500PSF	5.71 deg	7.13 deg	26 deg	26 deg	17 deg	99.46 deg	0 psf			

USE THIS SCHEDULE FOR 1/RW2

3  
RW2

TYPICAL WALL SECTION - 1V:4H MAX SLOPE ABOVE WALL  
1V:8H MAX SLOPE BELOW WALL  
BEARING IN CLAYEY OR SANDY SOILS

1/2" = 1'-0"

2  
RW2

TYPICAL WALL SECTION - 1V:10H MAX SLOPE ABOVE WALL  
1V:4H MAX SLOPE BELOW WALL  
BEARING IN CLAYEY OR SANDY SOILS

1/2" = 1'-0"

1  
RW2

TYPICAL WALL SECTION - 1V:10H MAX SLOPE ABOVE WALL  
1V:8H MAX SLOPE BELOW WALL  
BEARING IN CLAYEY OR SANDY SOILS

1/2" = 1'-0"

BY	DATE	DES.	DRN.	CHK.	NO.	DATE	REVISION	BY
	04-13-23	JAJ	VR	JAJ				

Falkofsky Engineering, Inc.  
Structural Engineering Consultants  
TX Reg. Engineering Firm F-4038  
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Arlington, Texas 76012  
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MASONRY RETAINING WALLS  
SEERED ROCKWALL ADDITION  
ROCKWALL, TEXAS

RPM xCONSTRUCTION, LLC  
MCKINNEY, TEXAS

STATE OF TEXAS  
JORGE A. JIMENEZ  
135575  
04-13-23

JOB NO. 259.23

RW2

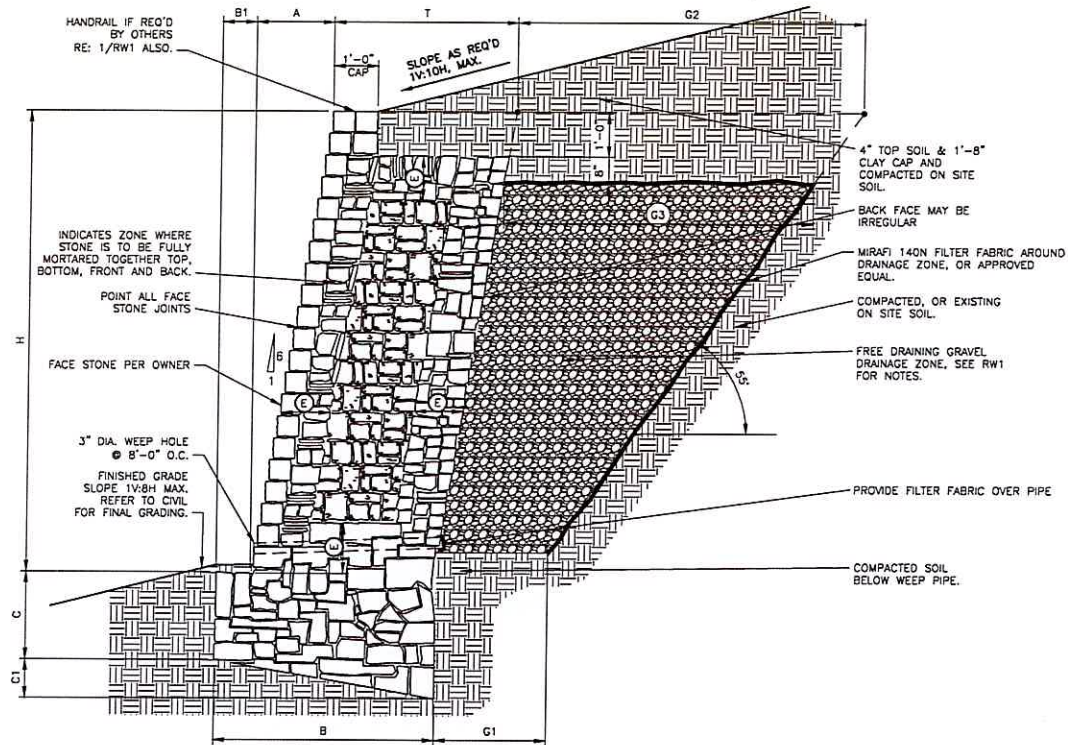
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BY: RL DATE: 1/3/25

PROJECT: Rockwall Park 30



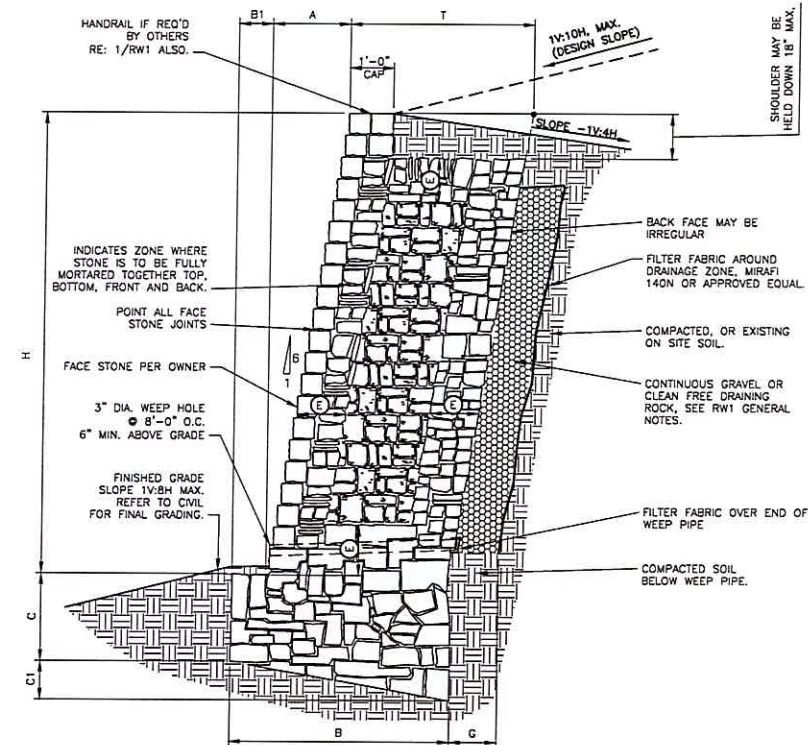


MASONRY WALL SCHEDULE											
1500 psf - BEARING CAPACITY (STIFF NATURAL UNDISTURBED SOILS OR COMPACTED AND TESTED SOILS SEE GENERAL NOTES SHEET RW1)											
WALL HEIGHT H	BASE WIDTH B	TOE B1	BASE DEPTH (HEEL) C	BASE DEPTH (HEEL) C1	BATTER A	FULLY MORTARED ZONE E	THICKNESS OF WALL T	GRAVEL (BOTTOM) G1	GRAVEL (TOP) G2	GRAVEL G3	BEARING CAPACITY
5'-0"	4'-11"	0'-8"	1'-3"	0'-11"	0'-10"	FULLY MORTARED	4'-3"	1'-8"	3'-11"	3'-0"	1500 psf
6'-0"	5'-11"	0'-11"	1'-6"	1'-1"	1'-0"	FULLY MORTARED	5'-0"	1'-8"	4'-7"	3'-9"	1750 psf
WALL DESIGN CRITERIA											
BEARING ON	SLOPE TOP β	SLOPE BOT β1	ACTIVE PRESSURE Pa deg	ACTIVE PRESSURE Pa deg	PASSIVE PRESSURE Pp deg	FRICTION ANGLE BASE δ deg	SLOPE OF BACK OF WALL α deg	SURCHARGE s			
1500psf	5.71 deg	7.13 deg	26 deg	35 deg	26 deg	17 deg	99.46 deg	0 psf			

USE THIS SCHEDULE FOR 2/RW3

2  
RW3 TYPICAL WALL SECTION - 1V:10H MAX SLOPE ABOVE WALL  
1V:8H MAX SLOPE BELOW WALL  
BEARING IN CLAYEY OR SANDY SOILS

1/2" = 1'-0"



MASONRY WALL SCHEDULE											
1500 psf - BEARING CAPACITY (STIFF NATURAL UNDISTURBED SOILS SEE GENERAL NOTES SHEET RW1)											
WALL HEIGHT H	BASE WIDTH B	TOE B1	BASE DEPTH (HEEL) C	BASE DEPTH (HEEL) C1	BATTER A	FULLY MORTARED ZONE E	THICKNESS OF WALL T	GRAVEL (BOTTOM) G1	GRAVEL (TOP) G2	GRAVEL G3	BEARING CAPACITY
1'-0"	1'-2"	0'-2"	0'-6"	0'-3"	0'-2"	FULLY MORTARED	1'-0"	1'-8"	3'-11"	3'-0"	1500 psf
2'-0"	1'-2"	0'-2"	0'-6"	0'-3"	0'-4"	FULLY MORTARED	1'-0"	1'-8"	3'-11"	3'-0"	1500 psf
3'-0"	1'-7"	0'-3"	0'-8"	0'-4"	0'-6"	FULLY MORTARED	1'-4"	1'-8"	3'-11"	3'-0"	1500 psf
4'-0"	2'-3"	0'-4"	1'-0"	0'-5"	0'-8"	FULLY MORTARED	1'-11"	1'-8"	3'-11"	3'-0"	1500 psf
5'-0"	2'-9"	0'-5"	1'-3"	0'-6"	0'-10"	FULLY MORTARED	2'-4"	1'-8"	3'-11"	3'-0"	1500 psf
6'-0"	3'-5"	0'-7"	1'-6"	0'-8"	1'-0"	FULLY MORTARED	2'-10"	1'-8"	3'-11"	3'-0"	1500 psf
WALL DESIGN CRITERIA											
BEARING ON	SLOPE TOP β	SLOPE BOT β1	ACTIVE PRESSURE Pa deg	PASSIVE PRESSURE Pp deg	FRICTION ANGLE BASE δ deg	SLOPE OF BACK OF WALL α deg	SURCHARGE s				
1500PSF	5.71 deg	7.13 deg	26 deg	26 deg	17 deg	99.46 deg	0 psf				

USE THIS SCHEDULE FOR 1/RW3

1  
RW3 TYPICAL WALL SECTION - 1V:10H MAX SLOPE ABOVE WALL  
1V:8H MAX SLOPE BELOW WALL  
BEARING IN CLAYEY OR SANDY SOILS

1/2" = 1'-0"

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DES.	VR				
DRN.	JAJ				
CHK.					

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ROCKWALL, TEXAS

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MCKINNEY, TEXAS

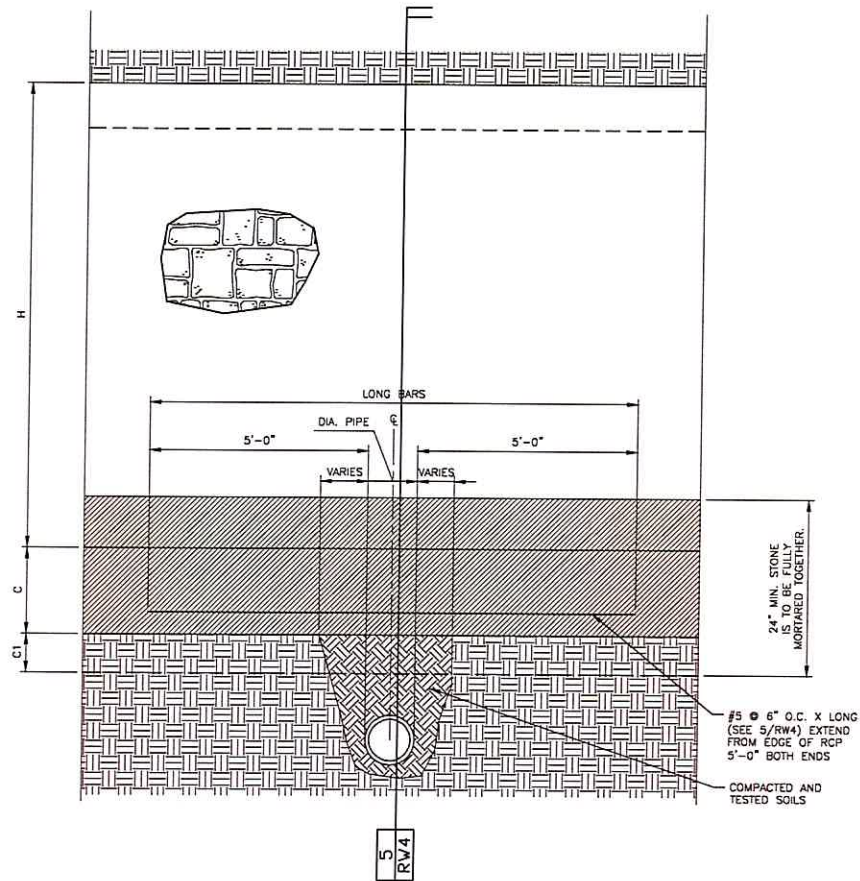
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JOSUE A. JIMENEZ  
135575  
04-13-23

JOB NO. 259.23

RW3

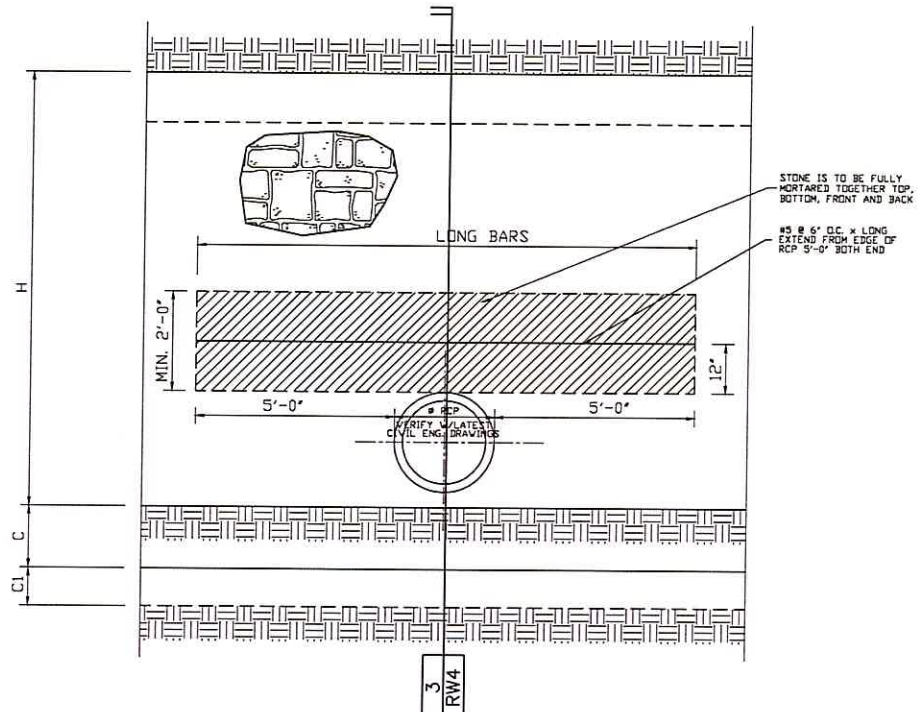
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BY: RL  
DATE: 1/3/25  
PROJECT: Rockwall Park 30





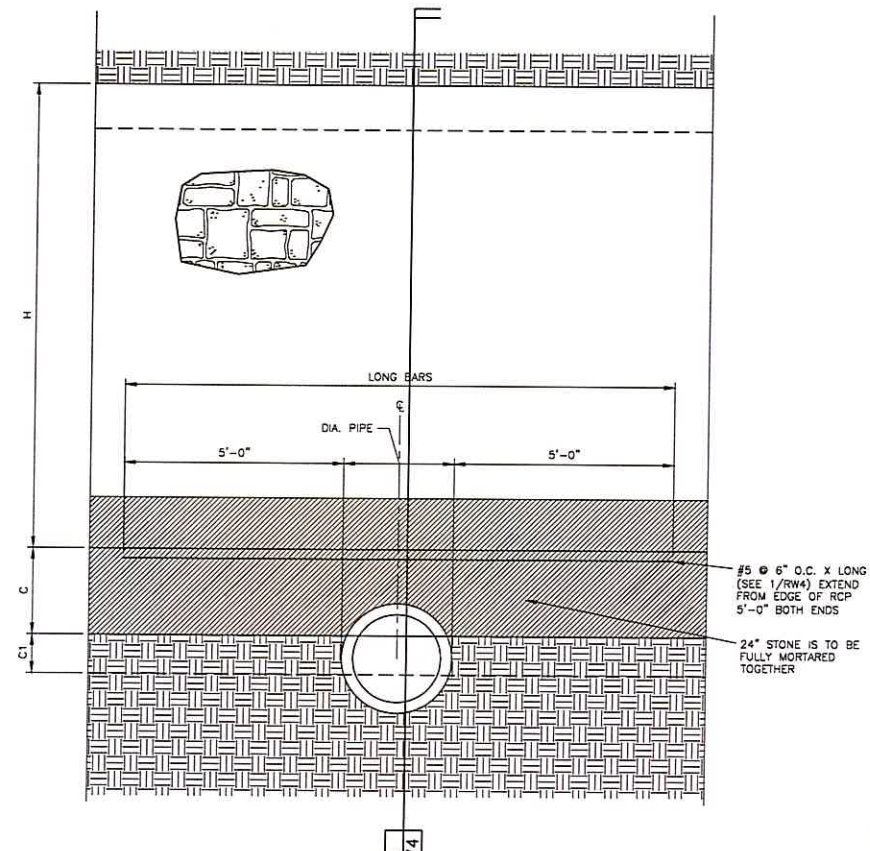
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RW4

WALL ELEVATION W/RCP BELOW WALL



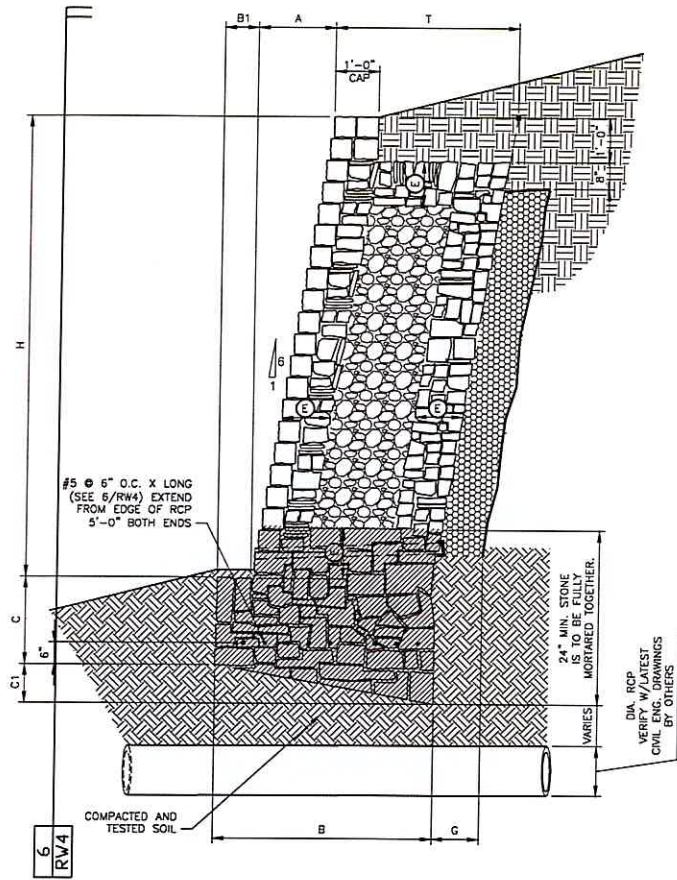
4  
RW4

WALL ELEVATION W/RCP



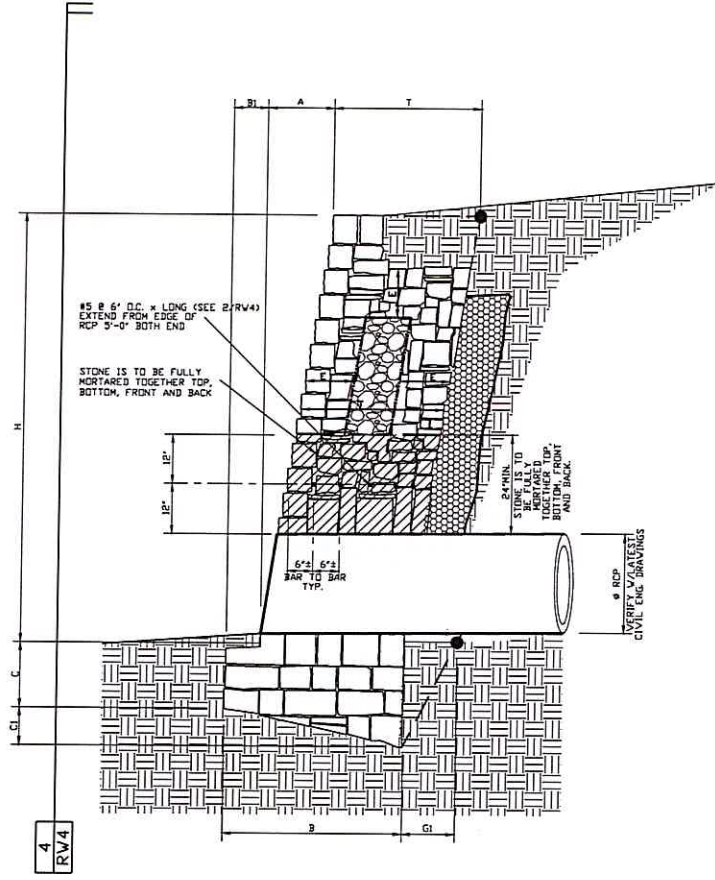
2  
RW4

WALL ELEVATION W/RCP THROUGH FOOTING



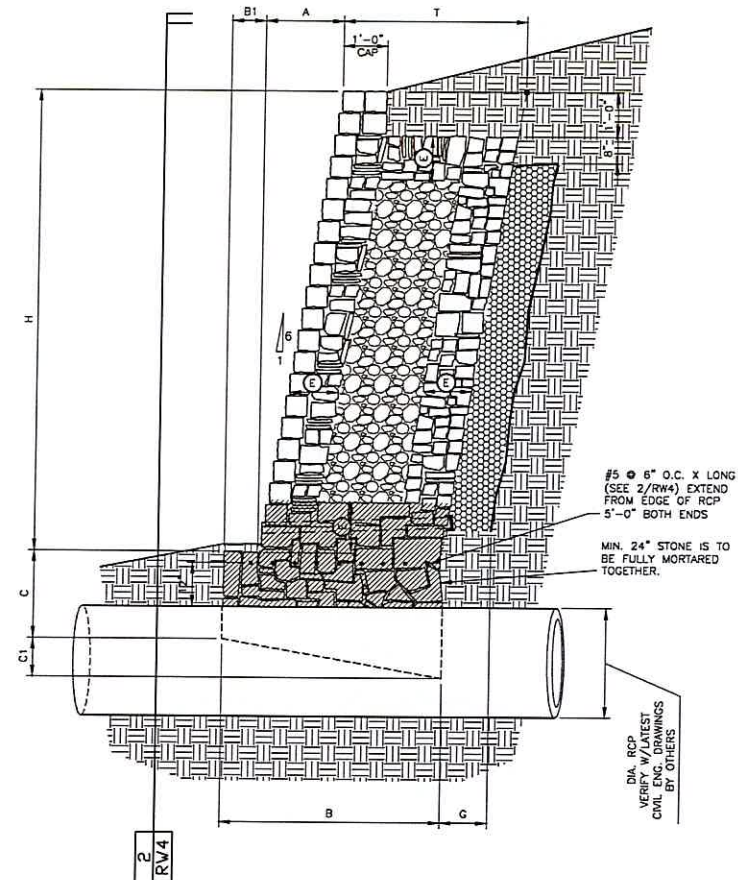
5  
RW4

WALL SECTION W/RCP BELOW WALL



3  
RW4

WALL SECTION W/RCP



1  
RW4

WALL SECTION W/RCP THROUGH FOOTING

DATE	BY	CHK.	DATE	BY
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04-13-23	VR			
04-13-23	JAJ			

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MASONRY RETAINING WALLS  
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ROCKWALL, TEXAS

RPM xCONSTRUCTION, LLC  
MCKINNEY, TEXAS

STATE OF TEXAS  
Jorge A. Jimenez  
135575  
04-13-23

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RW4