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908-964-0786

South Carolina
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Ridgeland, SC 29936
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Letter of Transmittal

Date: 11-4-25

Job No.: 937

Lab Log: 25-4690

Attention: Yazmeen
Alliance Technical Group
284 Sheffield Street
Mountainside, NJ 07092

CC: Jordan Hedvat, projectmanagers@chemtech.net

Re: Q3378 – AE1-CTY 3.2.Z-PR-DOCK-Des-ODC – 6069795-1

Sample(s) ID: **PR132-S02 thru PR132-S12** (10 Samples)

Dear Yazmeen,

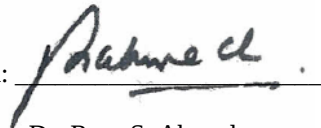
Please find attached results for the samples referenced above. The following lab testing was performed:

- ASTM D422 Sieve & Hydrometer Analysis

Regards,
RSA Geolab, LLC

Remarks: If you have any questions, please call 908-964-0786.

Signed: _____

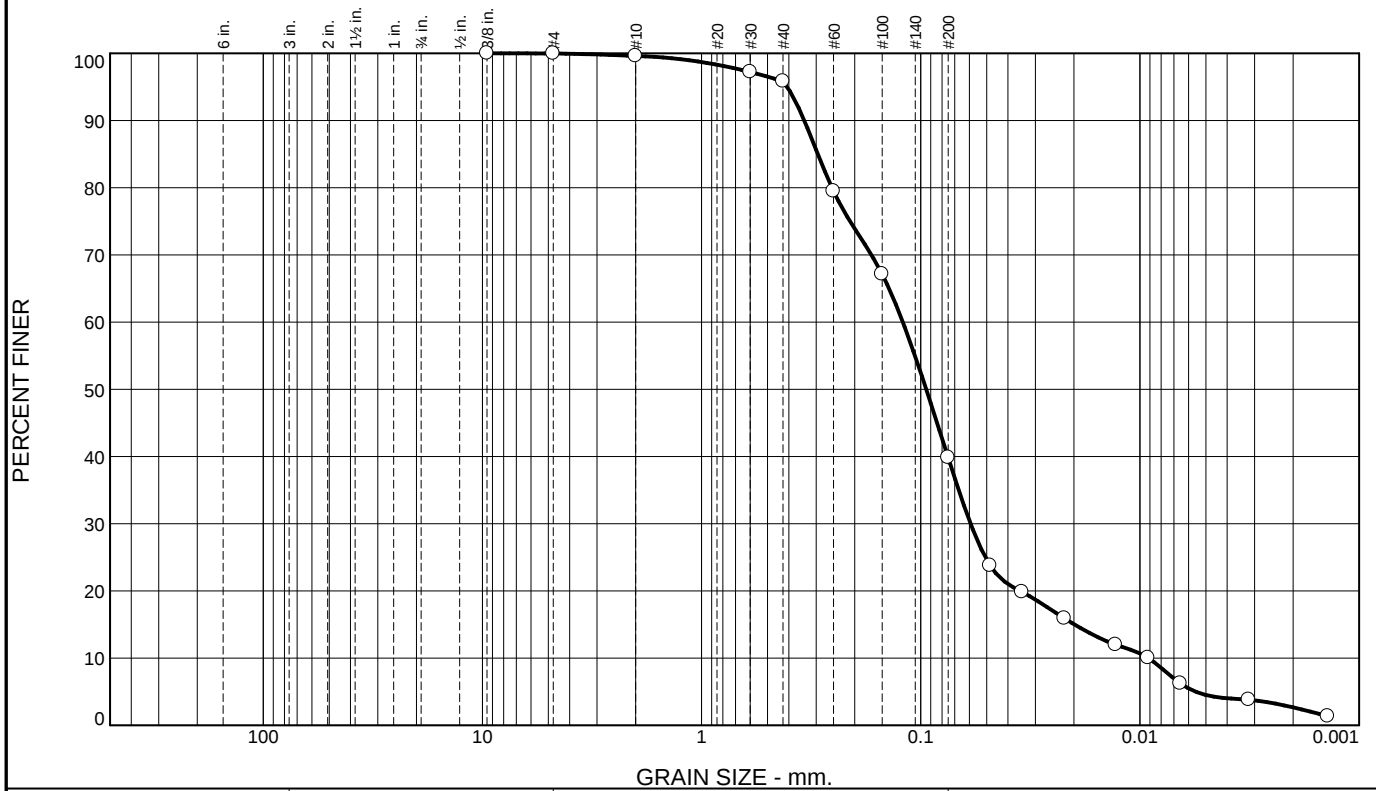

Dr. Raza S. Ahmed
President RSA Geolab, LLC

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.4	3.8	56.0	35.3	4.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100.0		
#4	100.0		
#10	99.6		
#30	97.2		
#40	95.8		
#60	79.5		
#100	67.1		
#200	39.8		

* (no specification provided)

Location: PR132-DP02-20251016

Date: 11-4-25

RSA Geolab Union, New Jersey	Client: Alliance Technical Group Project: Q3378 - AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1
	Project No: 889 Figure

Material Description
 Dark Gray

Atterberg Limits
 PL= LL= PI=

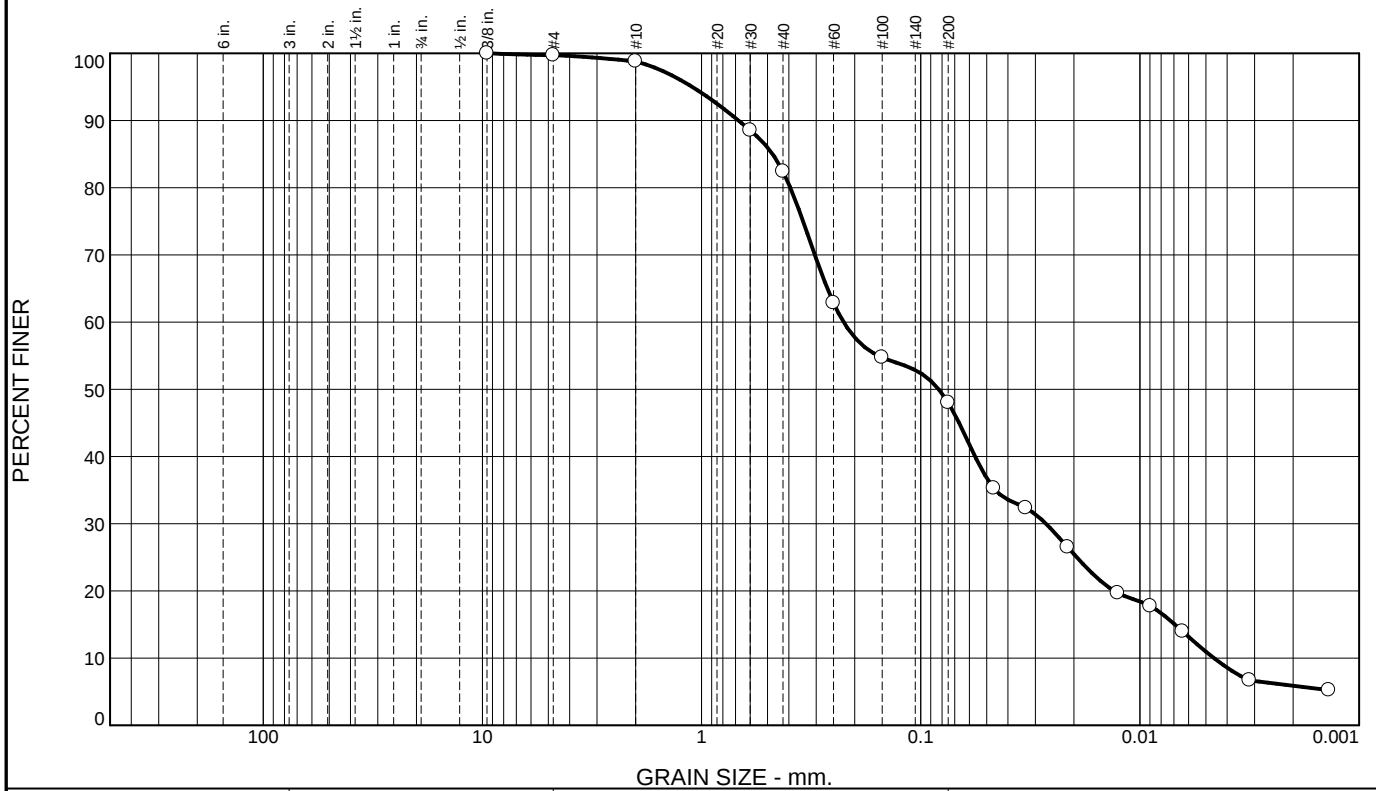
Coefficients
 D₉₀= 0.3401 D₈₅= 0.2947 D₆₀= 0.1208
 D₅₀= 0.0944 D₃₀= 0.0592 D₁₅= 0.0199
 D₁₀= 0.0091 C_u= 13.20 C_c= 3.18

Classification
 USCS= AASHTO=

Remarks

Tested By: OH Checked By: KH

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.3	0.9	16.4	34.4	37.0	11.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100.0		
#4	99.7		
#10	98.8		
#30	88.5		
#40	82.4		
#60	62.8		
#100	54.7		
#200	48.0		

* (no specification provided)

Material Description
 Dark Grayish Brown

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= 0.6789 D₈₅= 0.4740 D₆₀= 0.2249
 D₅₀= 0.0828 D₃₀= 0.0269 D₁₅= 0.0069
 D₁₀= 0.0046 C_u= 48.95 C_c= 0.70

Classification
 USCS= AASHTO=

Remarks

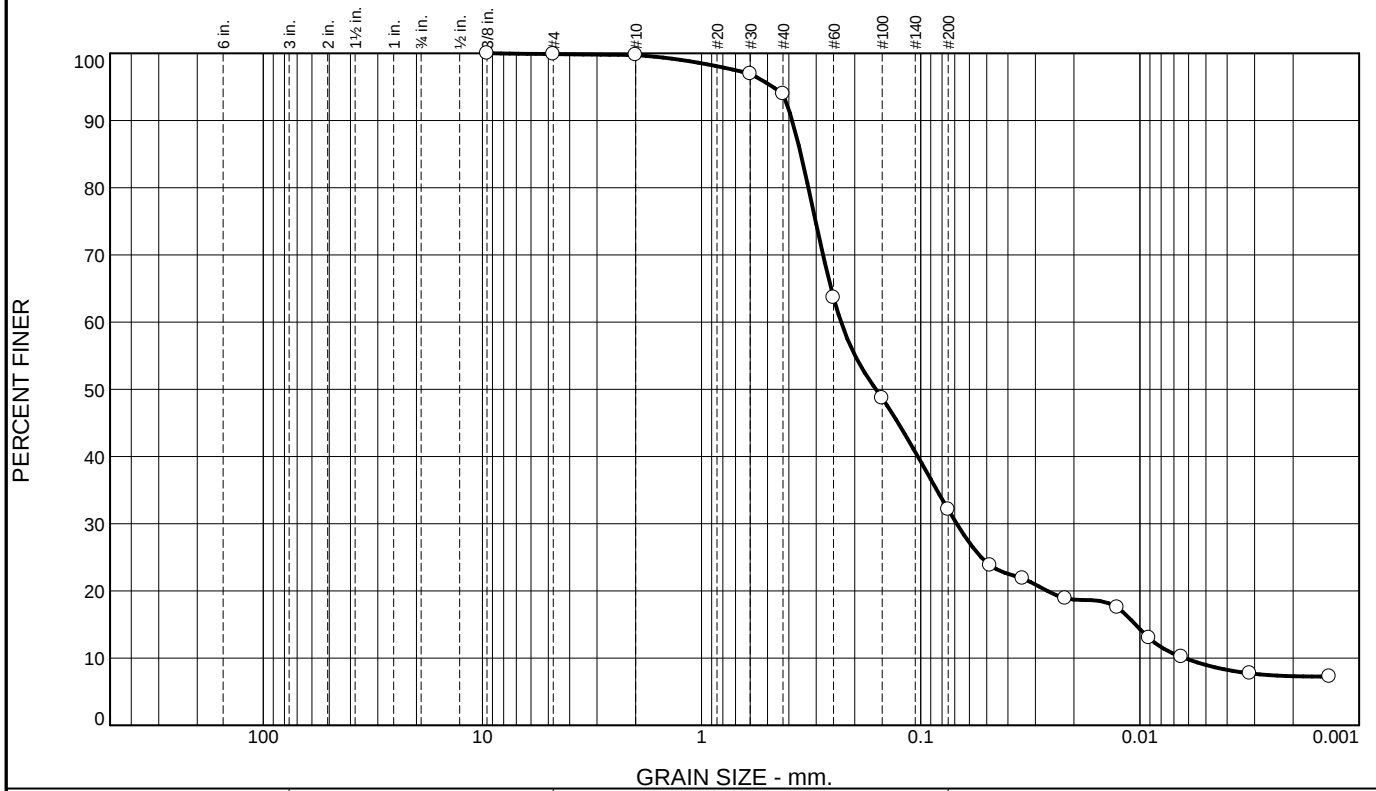
Location: PR132-S02-010074-20251016

Date: 11-4-25

RSA Geolab Union, New Jersey	Client: Alliance Technical Group Project: Q3378 - AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1
	Project No: 889 Figure

Tested By: OH Checked By: KH

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.1	0.2	5.7	61.9	23.1	9.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100.0		
#4	99.9		
#10	99.7		
#30	97.0		
#40	94.0		
#60	63.6		
#100	48.7		
#200	32.1		

* (no specification provided)

Location: PR132-S05-000057-20251016

Date: 11-4-25

RSA Geolab Union, New Jersey	Client: Alliance Technical Group Project: Q3378 - AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1
	Project No: 889 Figure

Material Description

Black

Atterberg Limits

PL= LL= PI=

Coefficients

D₉₀= 0.3861 D₈₅= 0.3526 D₆₀= 0.2311
 D₅₀= 0.1601 D₃₀= 0.0685 D₁₅= 0.0105
 D₁₀= 0.0063 C_u= 36.93 C_c= 3.25

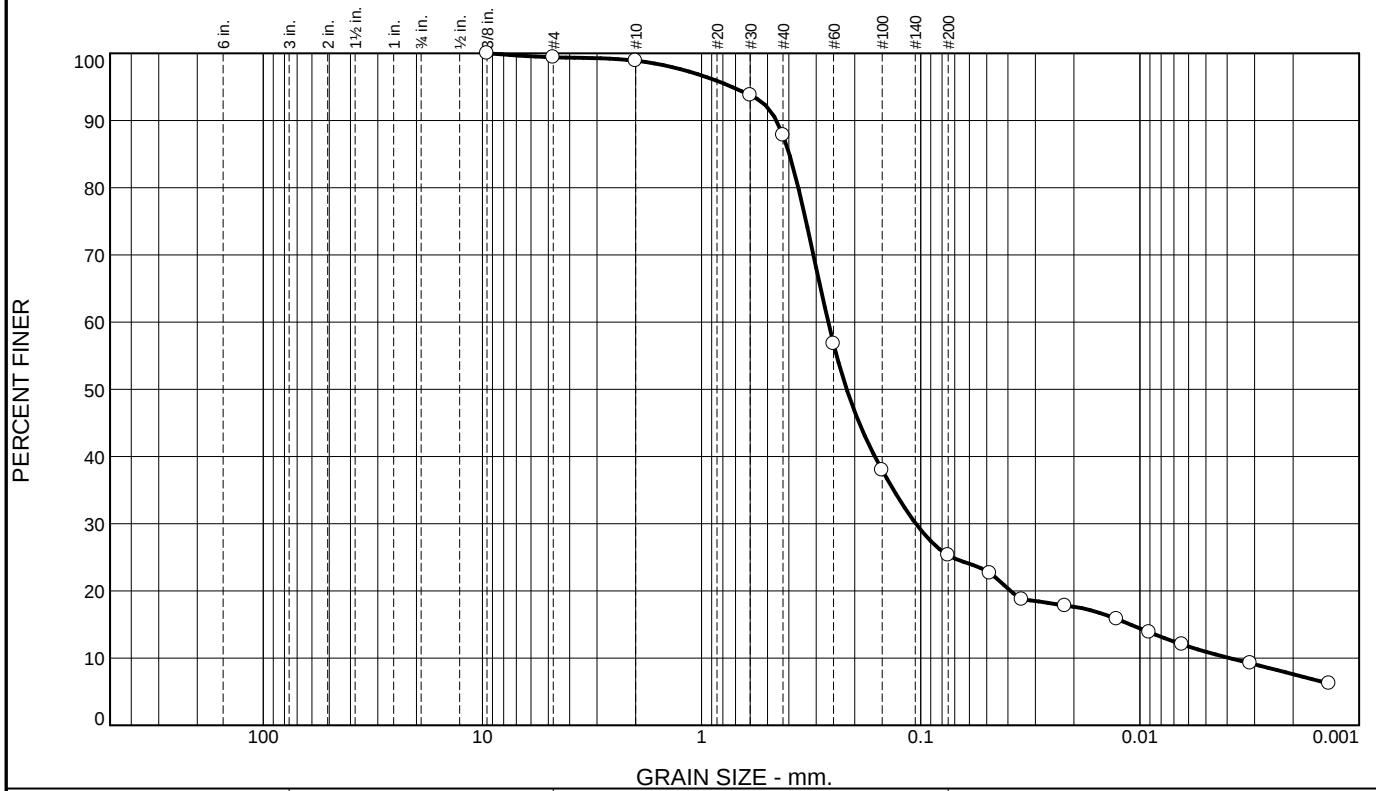
Classification

USCS= AASHTO=

Remarks

Tested By: OH Checked By: KH

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.6	0.5	11.1	62.5	14.4	10.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100.0		
#4	99.4		
#10	98.9		
#30	93.8		
#40	87.8		
#60	56.8		
#100	38.0		
#200	25.3		

* (no specification provided)

Location: PR132-S04-000013-20251016

Date: 11-4-25

RSA Geolab Union, New Jersey	Client: Alliance Technical Group Project: Q3378 - AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1
	Project No: 889 Figure

Material Description

Dark Gray

Atterberg Limits

PL= LL= PI=

Coefficients

D₉₀= 0.4552 D₈₅= 0.3977 D₆₀= 0.2643
 D₅₀= 0.2177 D₃₀= 0.1053 D₁₅= 0.0111
 D₁₀= 0.0039 C_u= 67.80 C_c= 10.75

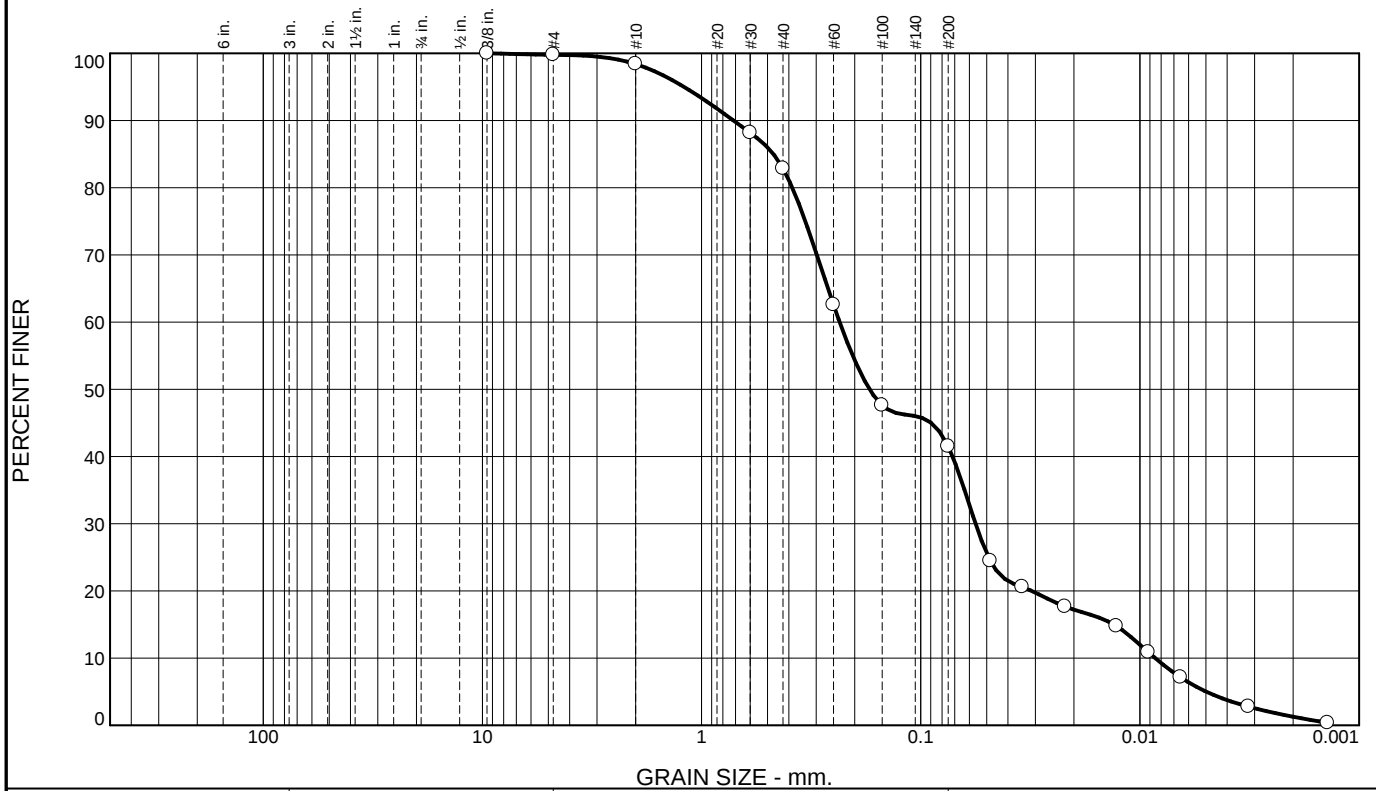
Classification

USCS= AASHTO=

Remarks

Tested By: OH Checked By: KH

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.2	1.4	15.6	41.3	36.5	5.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100.0		
#4	99.8		
#10	98.4		
#30	88.2		
#40	82.8		
#60	62.6		
#100	47.6		
#200	41.5		

* (no specification provided)

Material Description
 Dark Grayish Brown

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= 0.7159 D₈₅= 0.4700 D₆₀= 0.2344
 D₅₀= 0.1712 D₃₀= 0.0562 D₁₅= 0.0132
 D₁₀= 0.0085 C_u= 27.52 C_c= 1.58

Classification
 USCS= AASHTO=

Remarks

Location: PR132-S02-074099-20251016

Date: 11-4-25

RSA Geolab Union, New Jersey	Client: Alliance Technical Group Project: Q3378 - AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1
	Project No: 889 Figure

Tested By: OH Checked By: KH