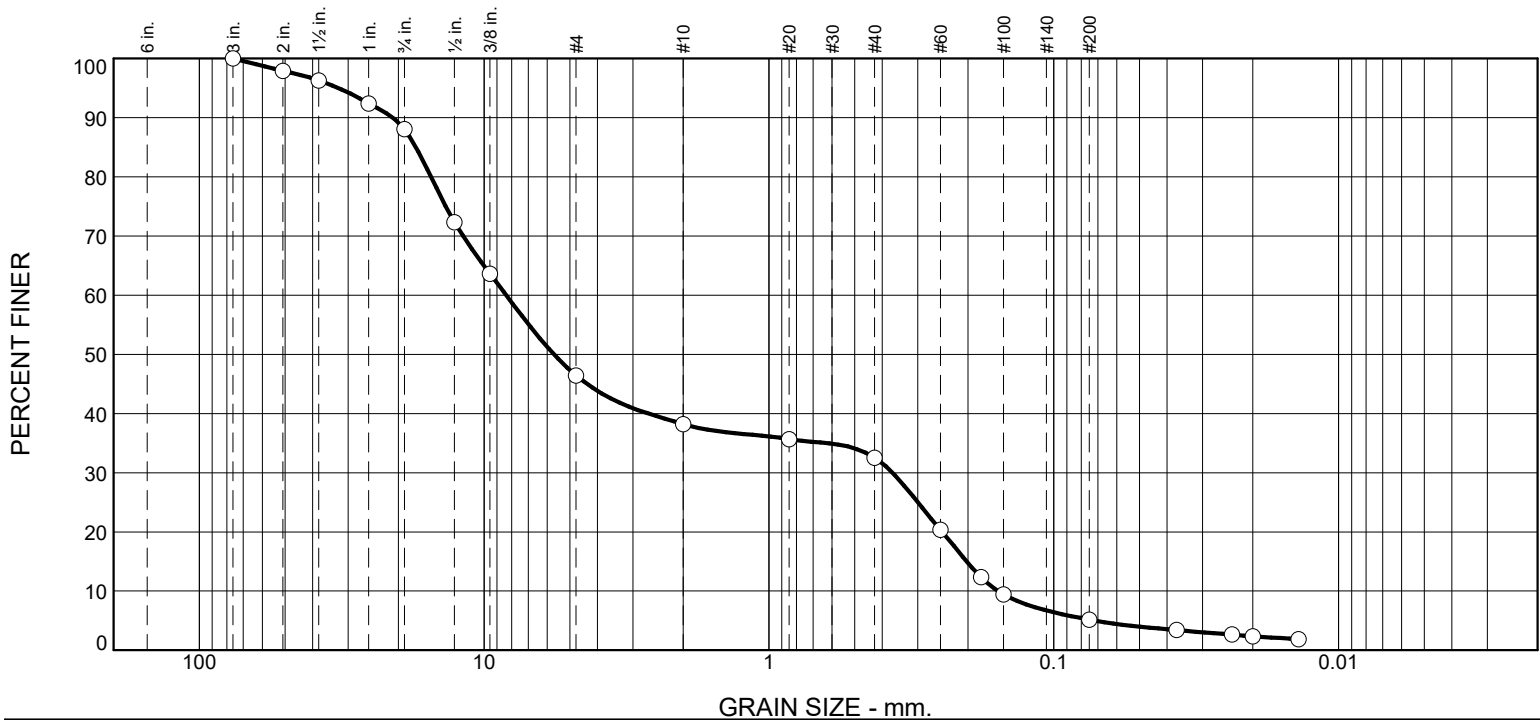


Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	12	42	8	5	28	5	

Test Results (ASTM C117 & C136, D422)			
Sieve Size or Diam. (mm.)	Finer (%)	Spec.* (%)	Out of Spec. (%)
3	100		
2	98		
1.5	96		
1	92		
.75	88		
1/2	72		
.375	64		
#4	46		
#10	38		
#20	36		
#40	33		
#60	20		
#80	12		
#100	9		
#200	5.2		
0.0375 mm.	3.4		
0.025 mm.	2.6		
.02mm	2.4		
0.0138 mm.	1.9		

* (no specification provided)

Location: Steam Line Ex
Sample Number: 25-607

Material Description

Existing 3" gravel with silt and sand

Sieve Test (ASTM C117 & C136)

Test Date: 7/14/25 Technician: Sylvia Mack

Test Notes

Max Dry Density = 143.3 pcf @ 5.3% moisture

Hydrometer Test (ASTM D422)

Test Date: 7/15/25 Technician: Chris Mack

Test Notes

Atterberg (ASTM D4318)

PL= NP LL= NV PI=

Coefficients

D₉₀= 20.9188 D₈₅= 17.3583

D₆₀= 8.3628 D₅₀= 5.6870

D₃₀= 0.3681 D₁₅= 0.2022

D₁₀= 0.1572

C_u= 53.20 C_c= 0.10

USCS (ASTM D2487)

GP-GM

Date Sampled: 7/12/25

Date Received: 7/12/25

Checked By: Stefan Mack, PE

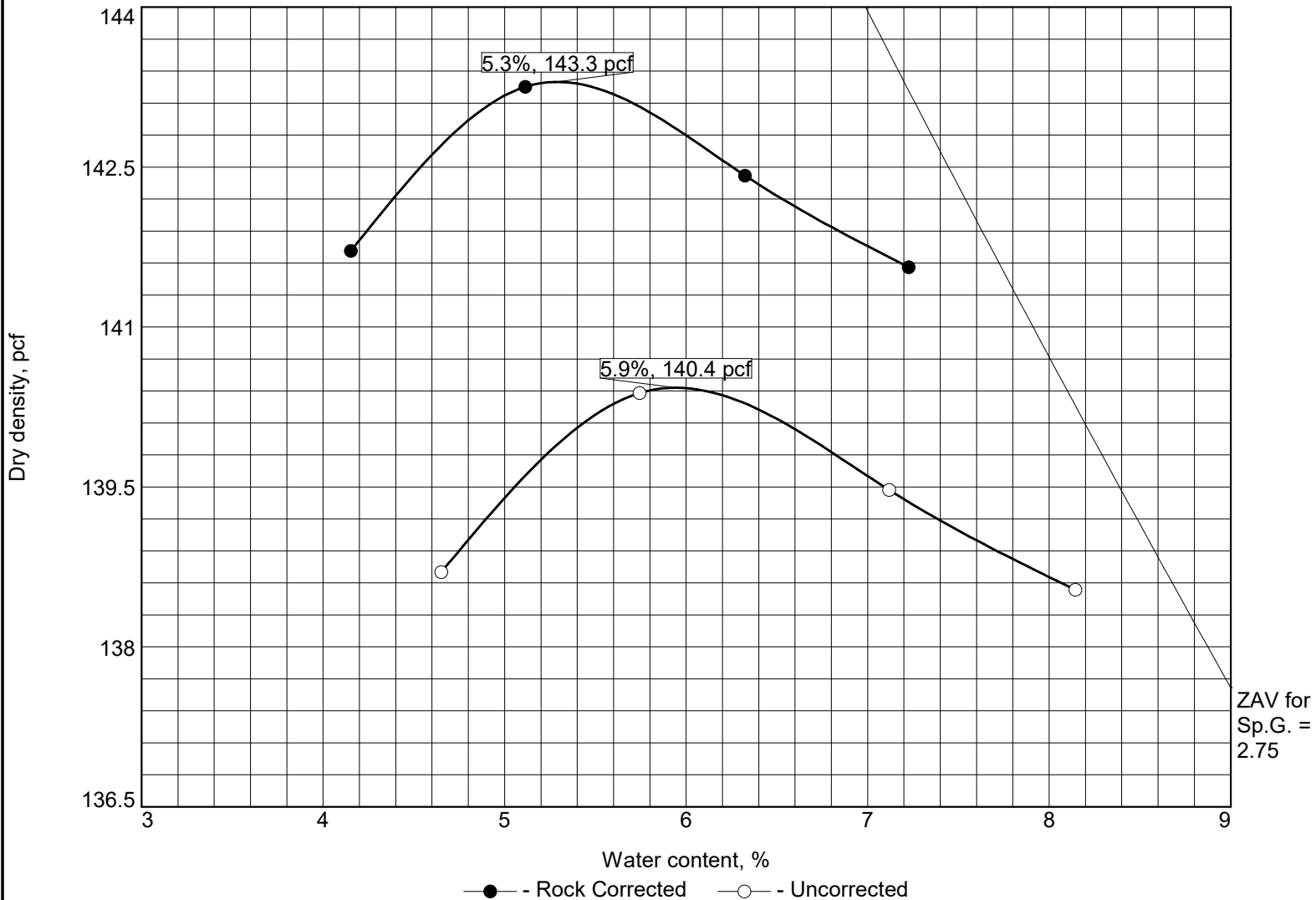
Title: Engineer

MAPPA TESTLAB
1956 Richardson Highway
North Pole, Alaska 99705

Client: Eklutna Construction & Maintenance
Project: FTW475 Gaffney Gate Repair Canopies
Ft Wainwright, AK
Project No:

Figure

COMPACTION TEST REPORT for Curve No. 25-607



Test specification: ASTM D 1557-12 Method C Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
	GP-GM	A-1-b		2.7	NV		12	5.2

ROCK CORRECTED TEST RESULTS		MATERIAL DESCRIPTION
Maximum dry density = 143.3 pcf Optimum moisture = 5.3 %		Existing 3" gravel with silt and sand
Project No. Client: Eklutna Construction & Maintenance Project: FTW475 Gaffney Gate Repair Canopies Ft Wainwright, AK Date: 7/14/25 Location: Steam Line Ex Sample Number: 25-607		Remarks: Specific Gravity Assumed Figure
MAPPA TESTLAB 1956 Richardson Highway North Pole, Alaska 99705		

Tested By: Sylvia Mack

Checked By: Stefan Mack, PE