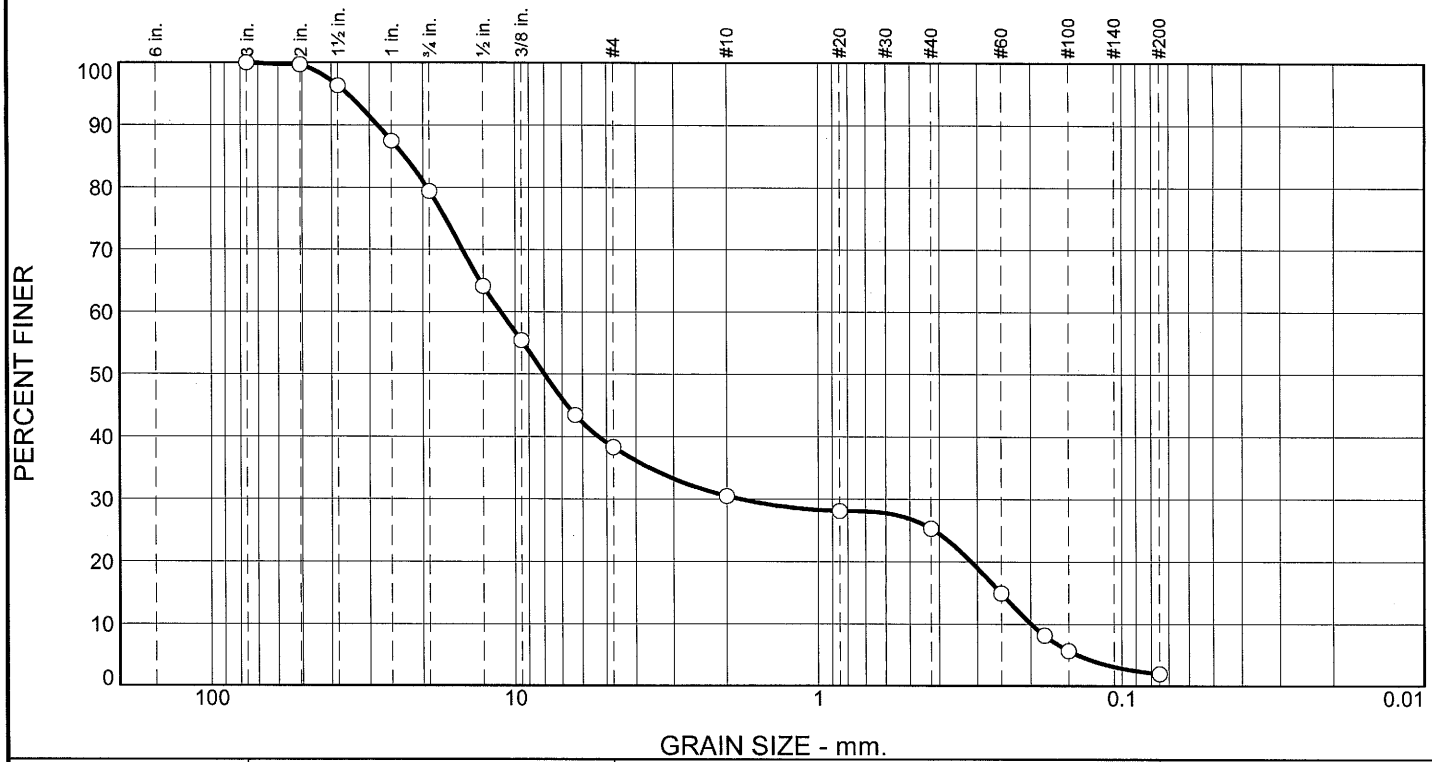
SUBMITTAL CERTIFICATION FORM			
CONTRACTOR'S NAME:	TAR/TBI Construction LLC		
PROJECT NAME:	Utility Service Ext APS 336A		
DU JOB NO:	J101395, J101396, and J101397		
As Prime Contractor, we checked this submittal and we certify it is correct, complete, and in compliance with Contract Drawings and Specifications. All affected Contractors and suppliers are aware of, and will integrate this submittal into their own work.			
SUBMITTAL NUMBER	4	DATE RECEIVED	8-8-10
REVISION NUMBER		DATE RECEIVED	
SPECIFICATION SECTION NUMBER /PARAGRAPH NUMBER		02200 1.3 B 1a	
DRAWING NUMBER			
SUBCONTRACTOR'S NAME	HC Construction		
SUPPLIER'S NAME			
MANUFACTURER'S NAME			
NOTE: DEVIATIONS FROM CONTRACT DOCUMENTS ARE PROPOSED AS FOLLOWS (Indicate "NONE" if there are no deviations)			
None			
CERTIFIED BY	Kris Manke		

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines
	Coarse	Fine	Coarse	Medium	Fine	Silt
0	21	41	7	6	23	2

Test Results (ASTM C 136 & ASTM C 117)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3	100		
2	100		
1.5	96		
1	87		
3/4	79		
1/2	64		
3/8	55		
1/4	43		
#4	38		
#10	31		
#20	28		
#40	25		
#60	15		
#80	8		
#100	6		
#200	2.0		

* (no specification provided)

Material Description

Pit Run

Atterberg Limits (ASTM D 4318)

PL= LL= PI=

Classification

USCS (D 2487)= GW AASHTO (M 145)=

Coefficients

D_{90}= 28.1689 D_{85}= 23.0351 D_{60}= 11.1387
D_{50}= 8.0001 D_{30}= 1.8046 D_{15}= 0.2506
D_{10}= 0.1992 C_u= 55.93 C_c= 1.47

Remarks

Max Dry Density = 143.4 pcf @ 6.3% moisture

Date Received: 6/5/10 **Date Tested:** 6/7/10

Tested By: CM

Checked By: SM

Title: Engineer

Source of Sample: Dennis Rd Pit **Depth:** Stockpile **Date Sampled:** 6/5/10

Sample Number: 10-585

Mappa TestLab

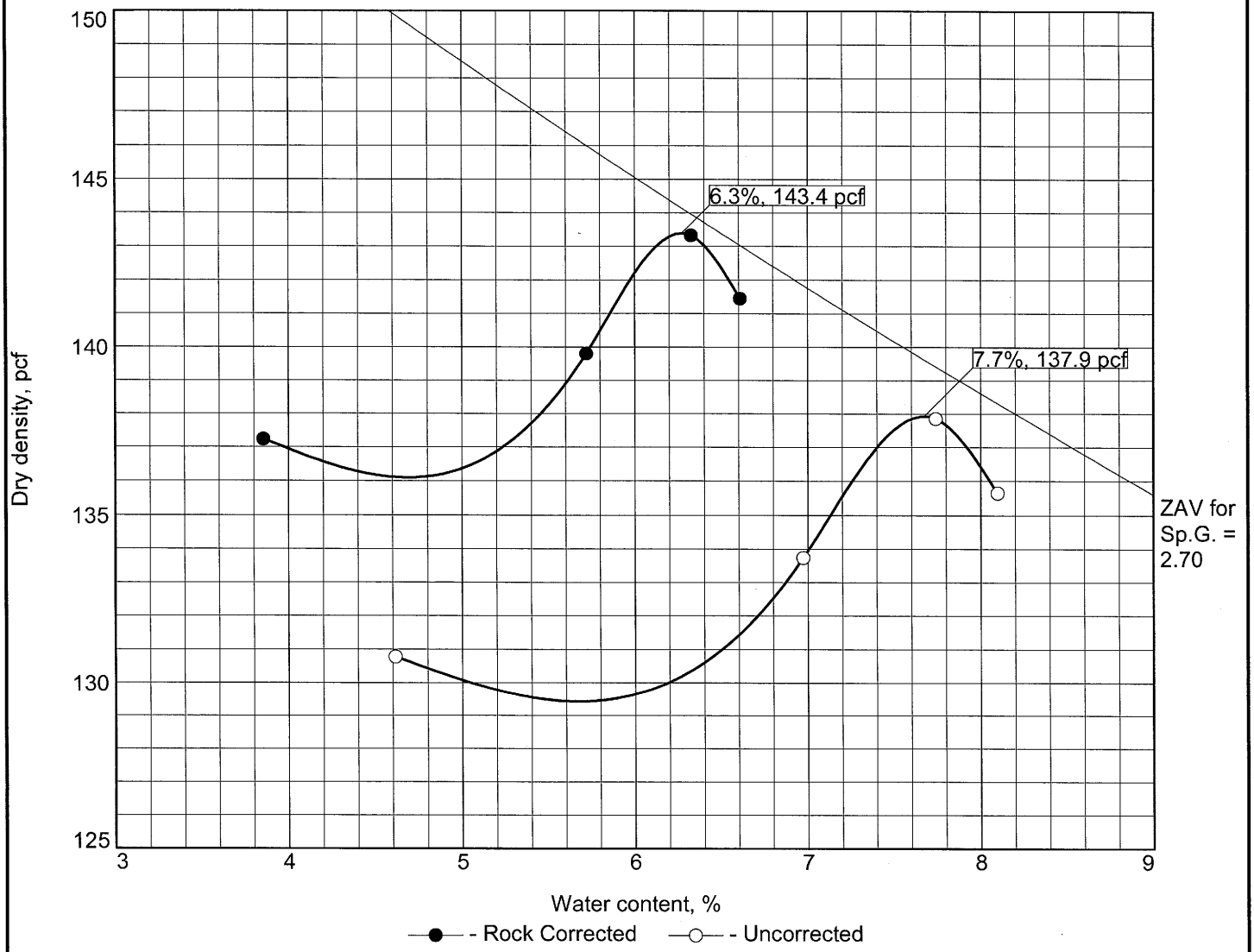
North Pole, Alaska

Client: HC Contractors

Project: 2010 QC Testing

Project No: 2010-032 **Figure**

COMPACTION TEST REPORT For Curve No. 10-585



Test specification: ASTM D 1557-09 Method C Modified
ASTM D 4718-87 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
Stockpile	GW		4.6	2.7			21	2.0

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 143.4 pcf	137.9 pcf	Pit Run
Optimum moisture = 6.3 %	7.7 %	

Project No. 2010-032 **Client:** HC Contractors
Project: 2010 QC Testing
Date: 6/6/10
○ **Sample Source:** Dennis Rd Pit **Depth:** Stockpile **Sample No.:** 10-585

Remarks:
Specific Gravity Assumed

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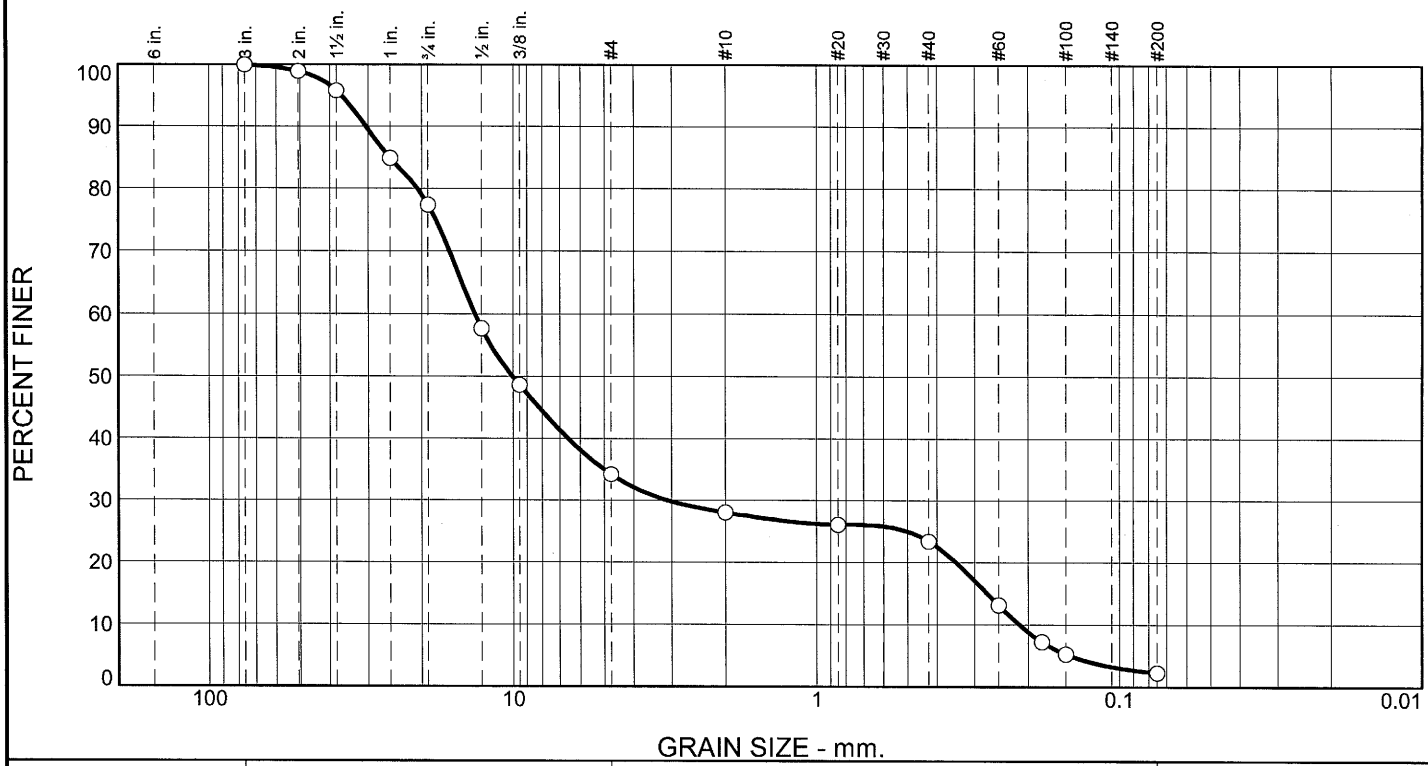
North Pole, Alaska

Figure

Tested By: MM **Checked By:** SM

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines
	Coarse	Fine	Coarse	Medium	Fine	Silt
0	23	43	6	5	21	2

Test Results (ASTM C 136 & ASTM C 117)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3	100	100 - 100	
2	99		
1.5	96		
1	85		
3/4	77		
1/2	58		
3/8	49		
#4	34	0 - 60	
#10	28		
#20	26		
#40	23		
#60	13		
#80	7		
#100	5		
#200	2.3	0 - 5	

* COE Structural

Material Description

Classified Fill
Structural Fill

Atterberg Limits (ASTM D 4318)

PL= np **LL=** nv **PI=**

Classification

USCS (D 2487)= GP **AASHTO (M 145)=** A-1-a

Coefficients

D_{90}= 30.5005 D_{85}= 25.5504 D_{60}= 13.3696
D_{50}= 10.0474 D_{30}= 3.1055 D_{15}= 0.2725
D_{10}= 0.2137 C_u= 62.58 C_c= 3.38

Remarks

Max Dry Density = 142.1 pcf @ 6.0% moisture
%passing #200 base on -3/4" = 2.9%

Date Received: 6/24/10 **Date Tested:** 6/25/10

Tested By: MM

Checked By: SM

Title: Engineer

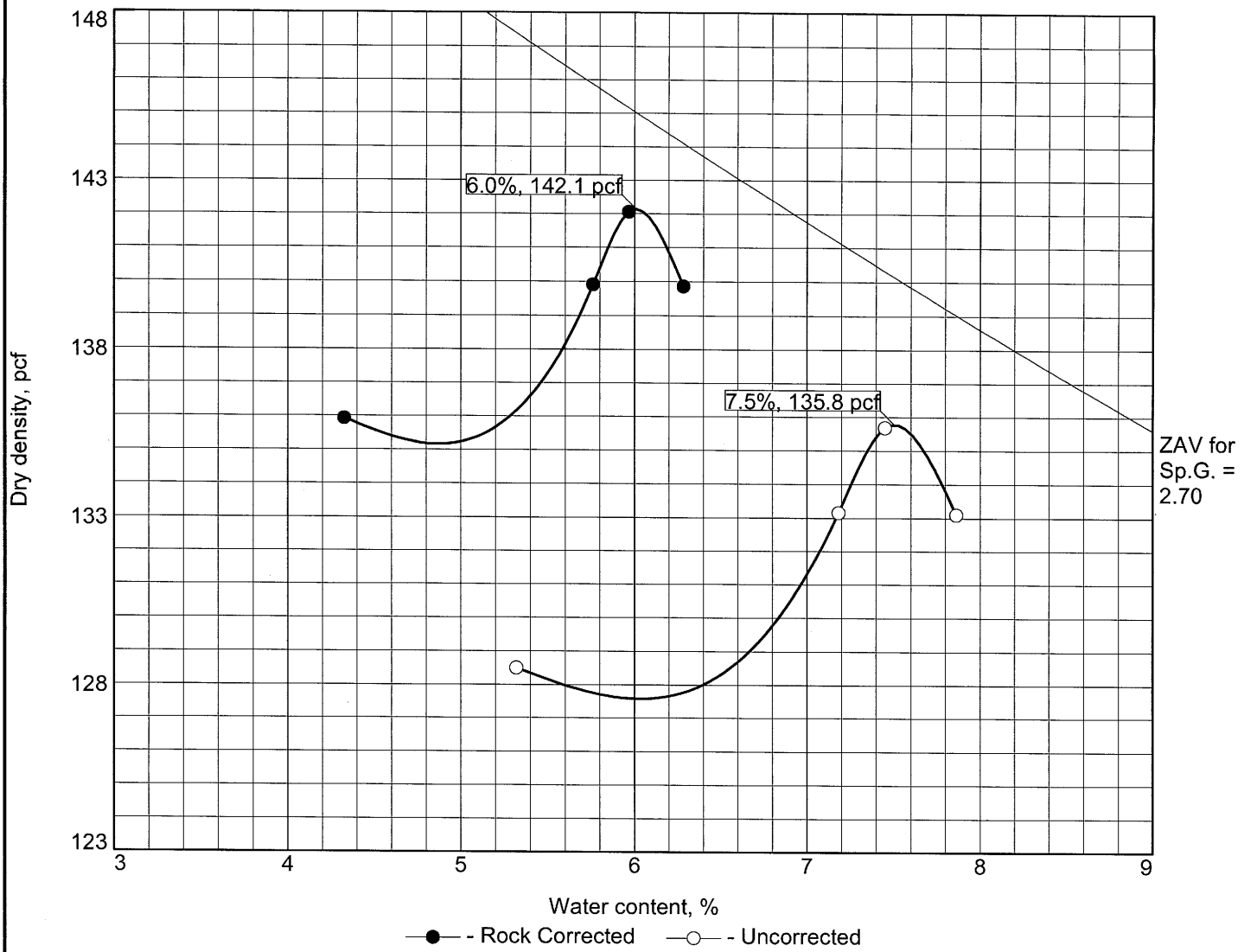
Source of Sample: HC Contractors Tanana Pit **Date Sampled:** JT
Sample Number: 10-740

Mappa TestLab

North Pole, Alaska

Client: HC Contractors
Project: 2010 QC Testing
FTW336A Aircraft Storage
Project No: 2010-032 **Figure**

COMPACTION TEST REPORT For Curve No. 10-740



Test specification: ASTM D 1557-09 Method C Modified
ASTM D 4718-87 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
	GP	A-1-a		2.7	nv		23	2.3

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 142.1 pcf	135.8 pcf	Classified Fill Structural Fill
Optimum moisture = 6.0 %	7.5 %	

Project No. 2010-032 **Client:** HC Contractors
Project: 2010 QC Testing
FTW336A Aircraft Storage **Date:** 6/25/10
○ **Sample Source:** HC Contractors Tanana Pit **Sample No.:** 10-740

Mappa TestLab

North Pole, Alaska

Remarks:
Specific Gravity Assumed

Figure

Tested By: LC **Checked By:** SM