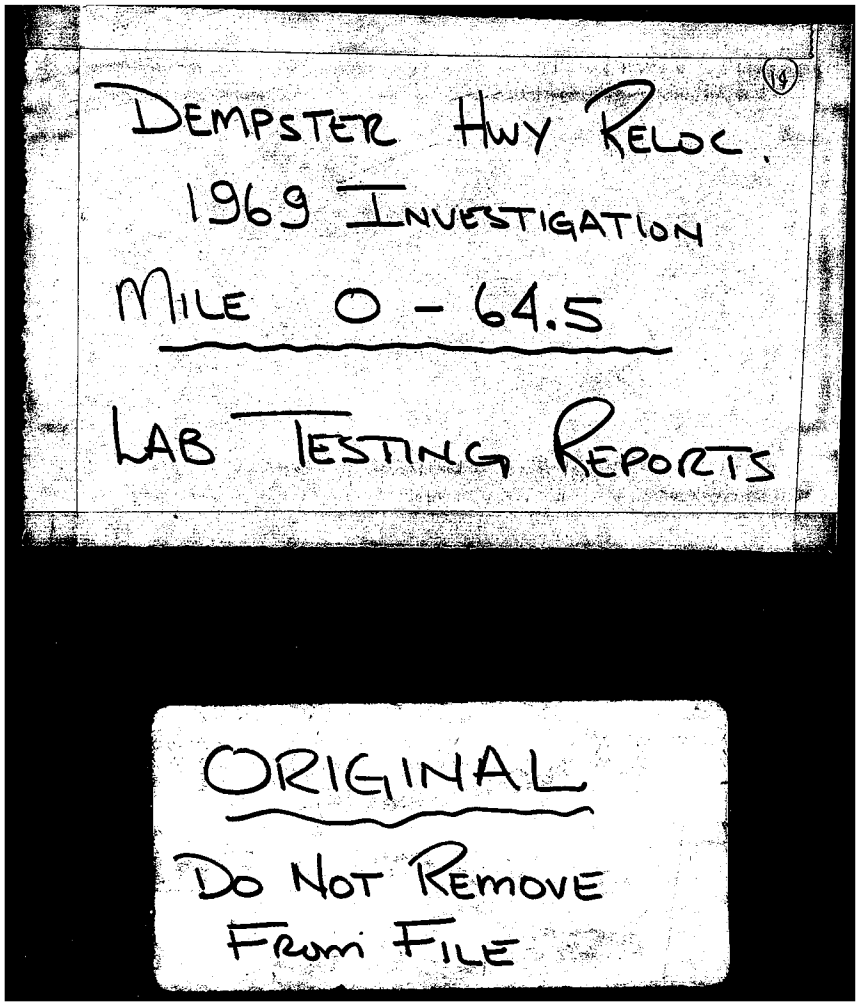

(19)
DEMPSTER HWY RELOC.
1969 INVESTIGATION
MILE 0 - 64.5
LAB TESTING REPORTS
ORIGINAL
DO NOT REMOVE
FROM FILE

AGGREGATE DEPOSIT REPORT (Cont'd)

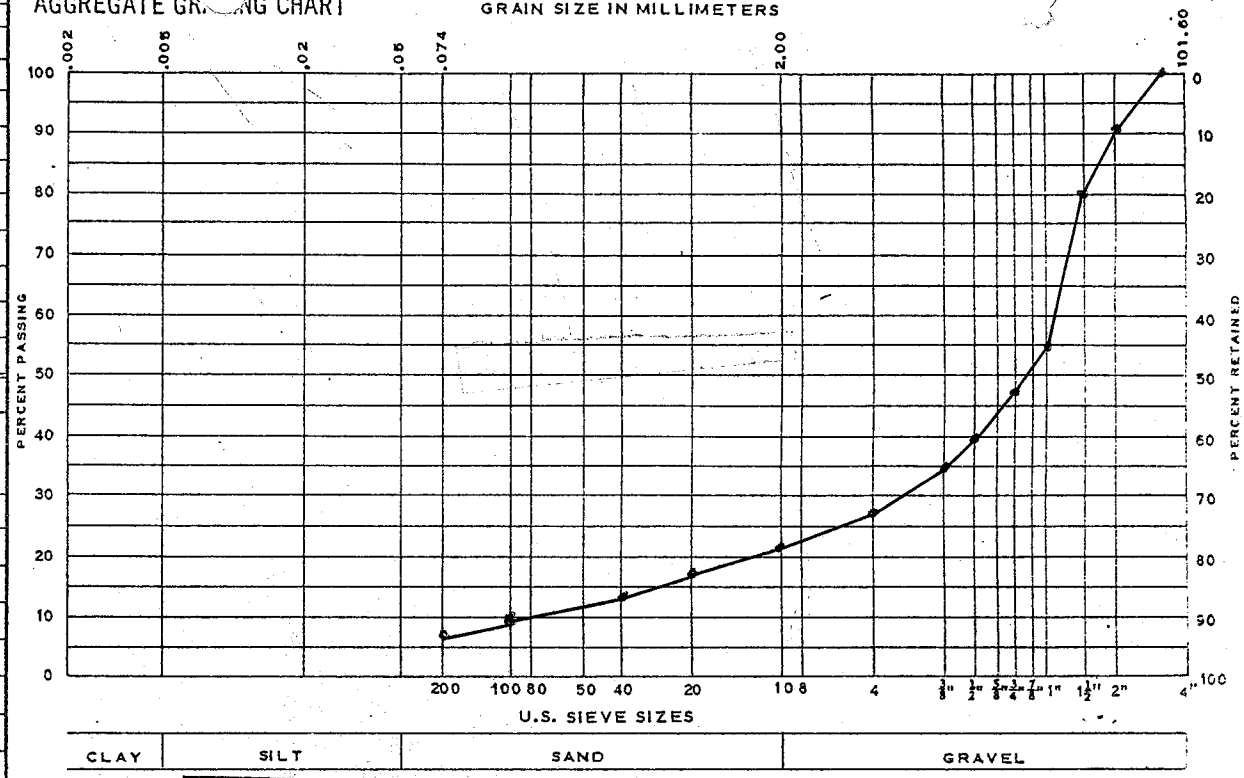
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER									
	%			%						
3"	100		# 4	27.5						
2"	90.7		# 10	22.1						
1½"	79.6		# 20	17.6						
1"	55.6		# 40	14.0						
¾"	47.5		#100	9.6						
½"	40.6		#200	7.6						
⅜"	35.2									
% + 4"										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.W.										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 3000 + 00

HOLE No. ..... DEPTH 0' - 4'

SAMPLE TYPE ..... DATE SAMPLED JUNE 69

FIELD SAMPLE No. 1 ..... LAB SAMPLE No. 2830

D. P. W. WHITEHORSE - SOILS LAB D.M.

26-3-71

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

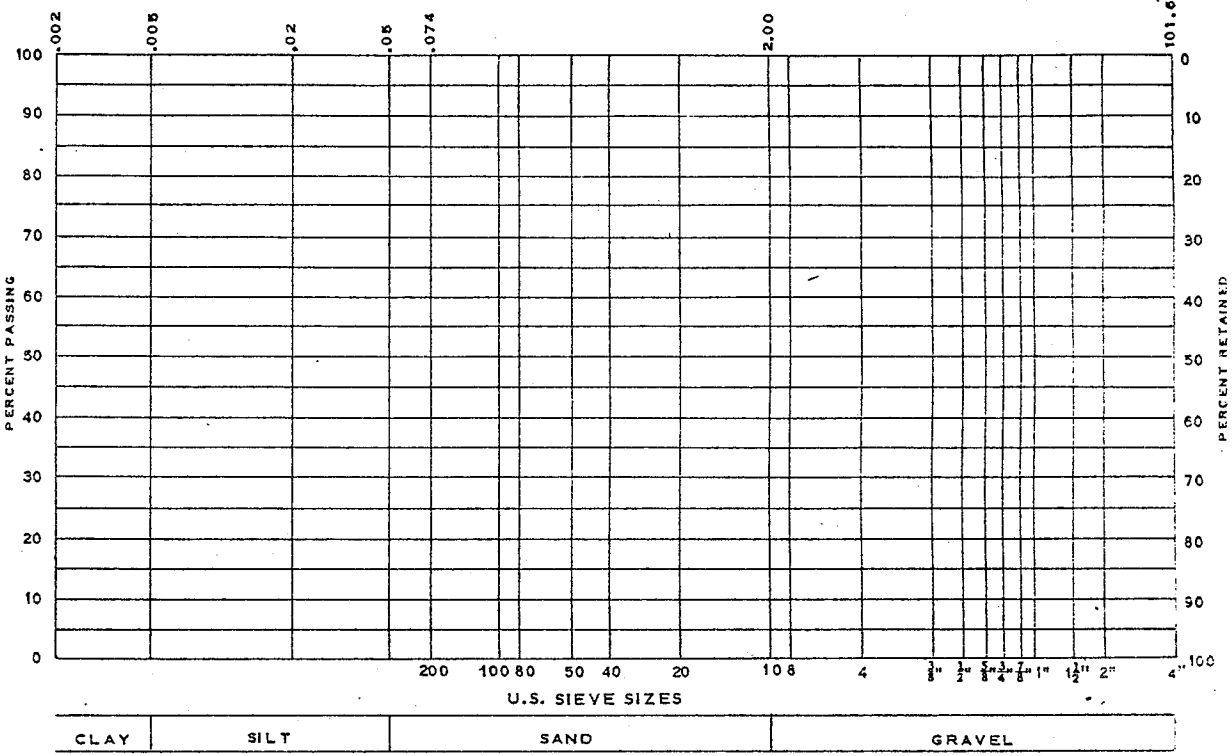
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	ORGANIC MATERIAL								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
					00							
		ORGANIC										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY.

LOCATION STA. 3000+00

HOLE No. ..... DEPTH 4'-7'

SAMPLE TYPE ..... DATE SAMPLED JUNE '69

FIELD SAMPLE No. 2 ..... LAB SAMPLE No. 2834

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

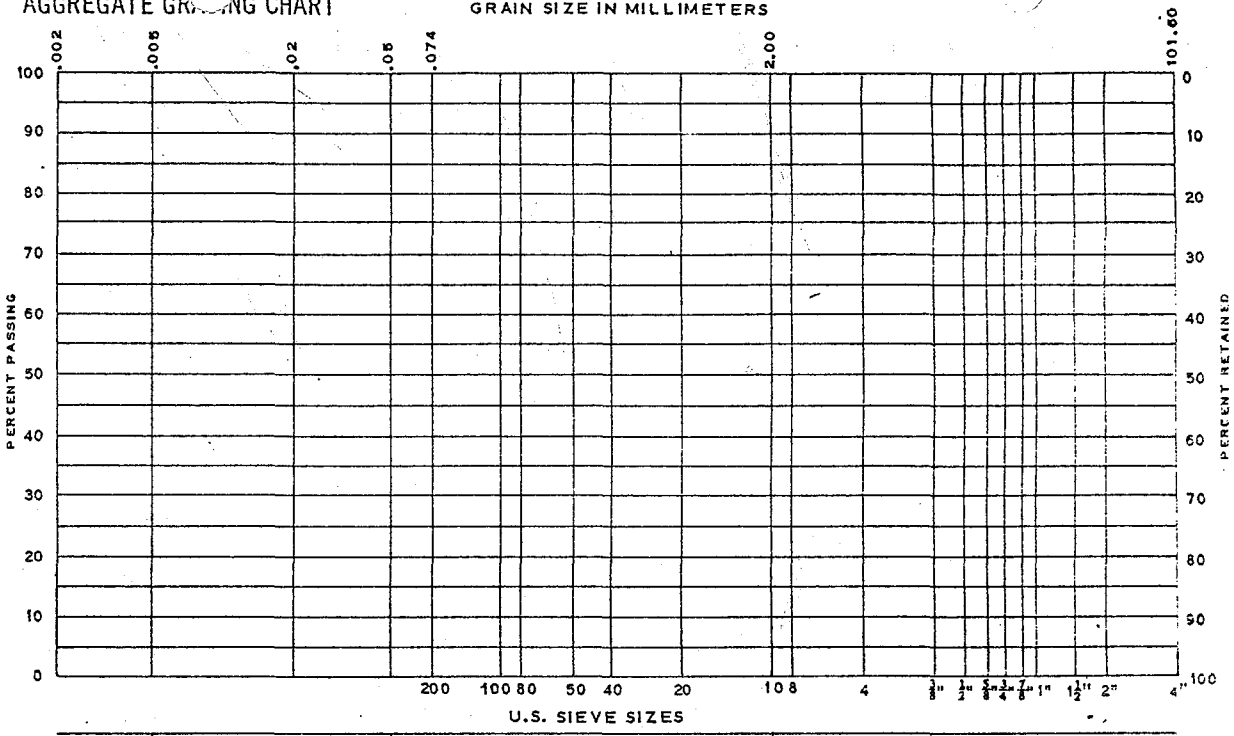
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
	81.8 % PASSING #200 SIEVE							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
					0.0							
		A-4										
		M.L.										
		SILT - FINE SAND MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY
LOCATION STA. 3000+00
HOLE No. DEPTH 7' TO 10'
SAMPLE TYPE DATE SAMPLED JUNE 69
FIELD SAMPLE No. #3 LAB SAMPLE No. 2835
D. P. W. WHITEHORSE - SOILS LAB

26-3-71

TESTING ENGINEER — DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER — DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

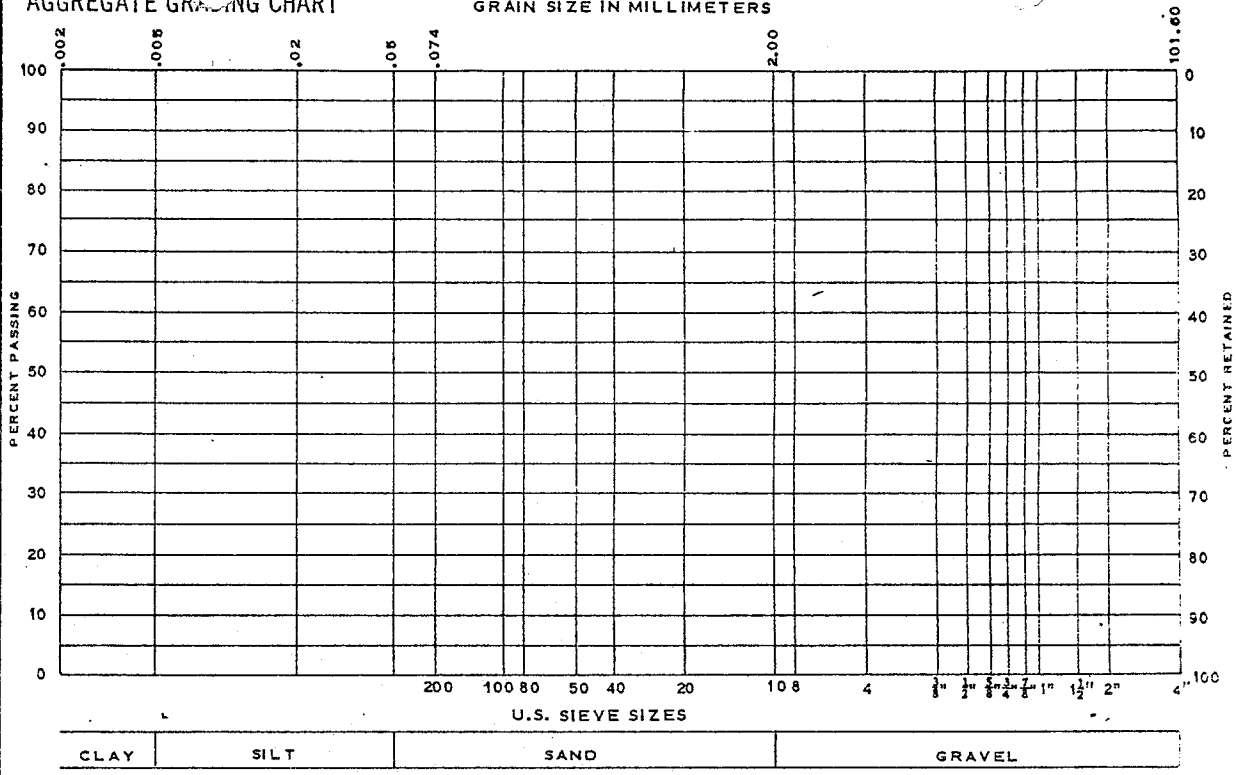
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	ORGANIC MATERIAL								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
					NP							
		ORGANIC										
		~~OT~~										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY.

LOCATION STA. 4000+00 — 3 18S P

HOLE No. ..... DEPTH 3'-6'

SAMPLE TYPE ..... DATE SAMPLED JUNE '69

FIELD SAMPLE No. 4 LAB SAMPLE No. 7838

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

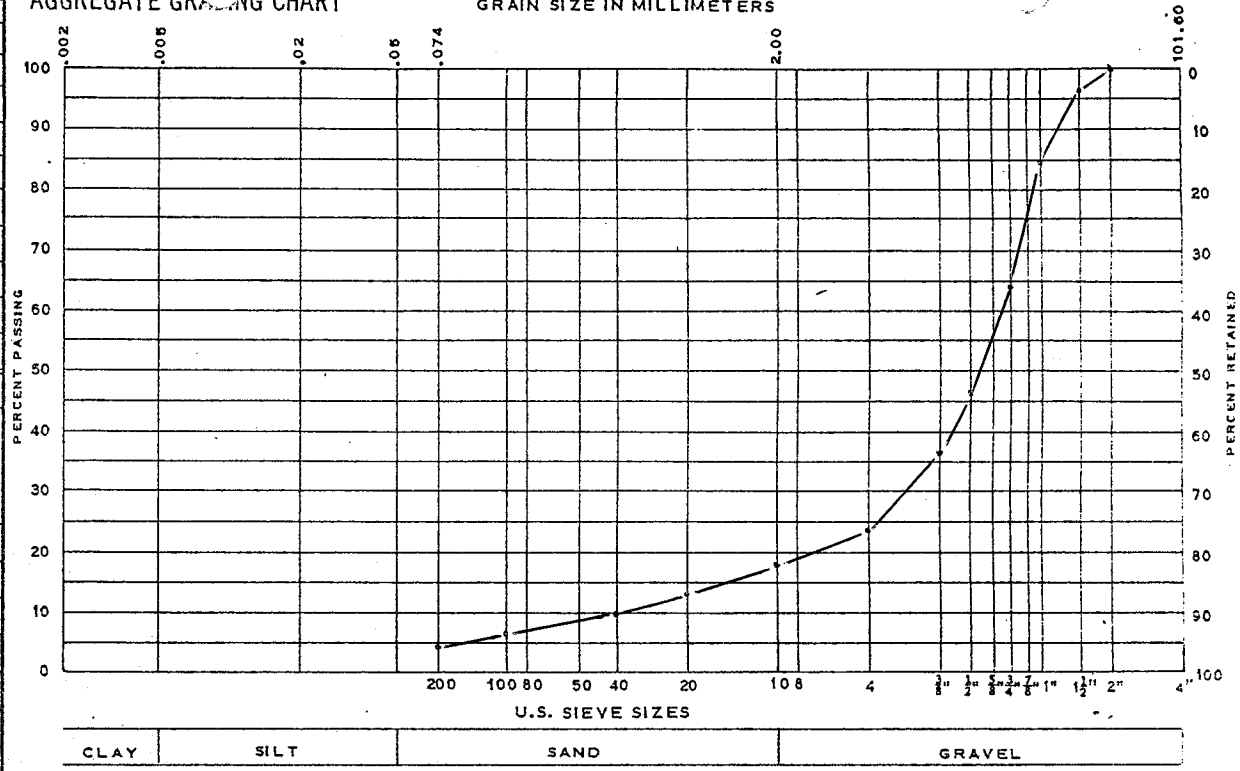
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
			23.9	#4					
100.0	2"		18.0	#10					
96.1	1½		13.5	20					
84.6	1		9.9	40					
64.4	¾		6.1	100					
46.4	½		4.6	200					
36.0	⅜								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.W.										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION

HOLE No. DEPTH

SAMPLE TYPE DATE SAMPLED JUNE '69

FIELD SAMPLE No. LAB SAMPLE No ~~2841~~

D. P. W. WHITEHORSE - SOILS LAB 2862

TESTING ENGINEER

25-3-7 DATE

MATERIALS ENGINEER'S REMARKS

~~2841 STA. 3165+00 - 3'-5' - SAMPLE #7~~

2862 - STA. 3000+00 - 4½'-10' - " #28

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

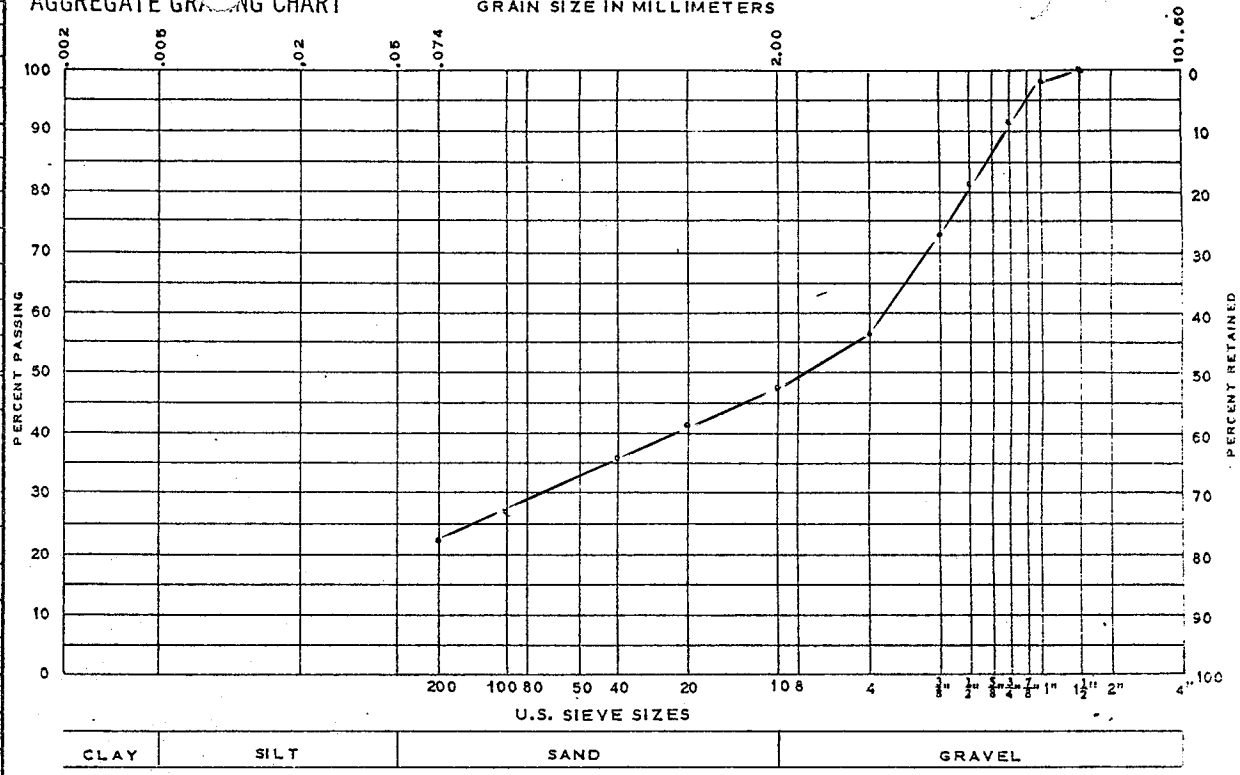
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	1 1/2"		56.3	#4					
98.0	1		47.7	10					
91.1	3/4		41.2	20					
80.9	1/2		35.4	40					
72.9	3/8		26.4	100					
			22.3	200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.8	18.4	3.4							
		A-1-b										
		S.M.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA. 3135

HOLE No. ____ DEPTH 4'-10'

SAMPLE TYPE ____ DATE SAMPLED JUNE'69

FIELD SAMPLE No. 12. LAB SAMPLE No. 2846

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

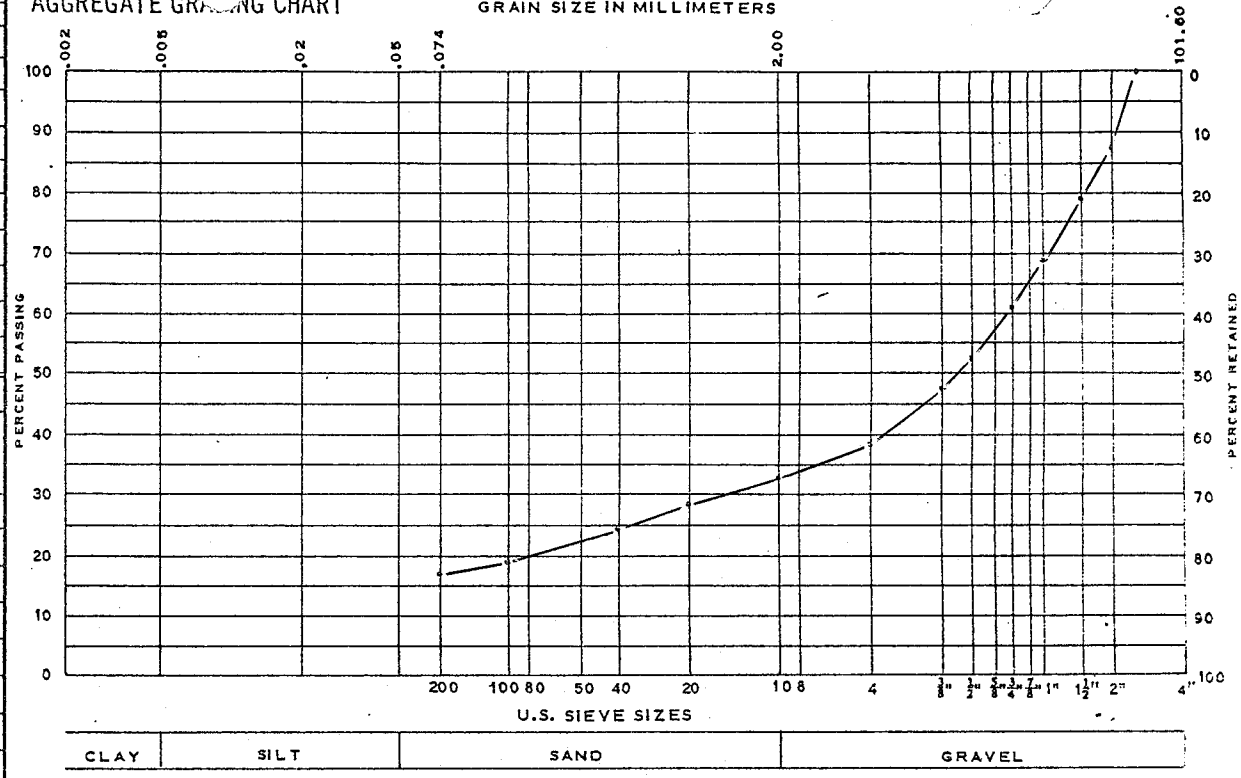
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	3"		38.4	#4					
87.7	2		33.0	10					
79.3	1 1/2		28.4	20					
69.2	1		24.7	40					
60.6	3/4		19.2	100					
52.7	1/2		16.7	200					
47.4	3/8								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			18.9	17.6	1.3							
		A-1-b										
		G.W.										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION

HOLE No. DEPTH

SAMPLE TYPE DATE SAMPLED JUNE '69

FIELD SAMPLE No. LAB SAMPLE No. 2847 & 48,

D. P. W. WHITEHORSE - SOILS LAB ~~2851~~

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

2847 - 3'-10' - STA. 3125 - SAMPLE # 13

2848 - 4'-10' - STA. 3115 - " # 14

~~2851 - 3' 10' - STA. 3085 - # 17~~

MATERIALS ENGINEER

DATE

SHEET OF

SIEVE ANALYSIS

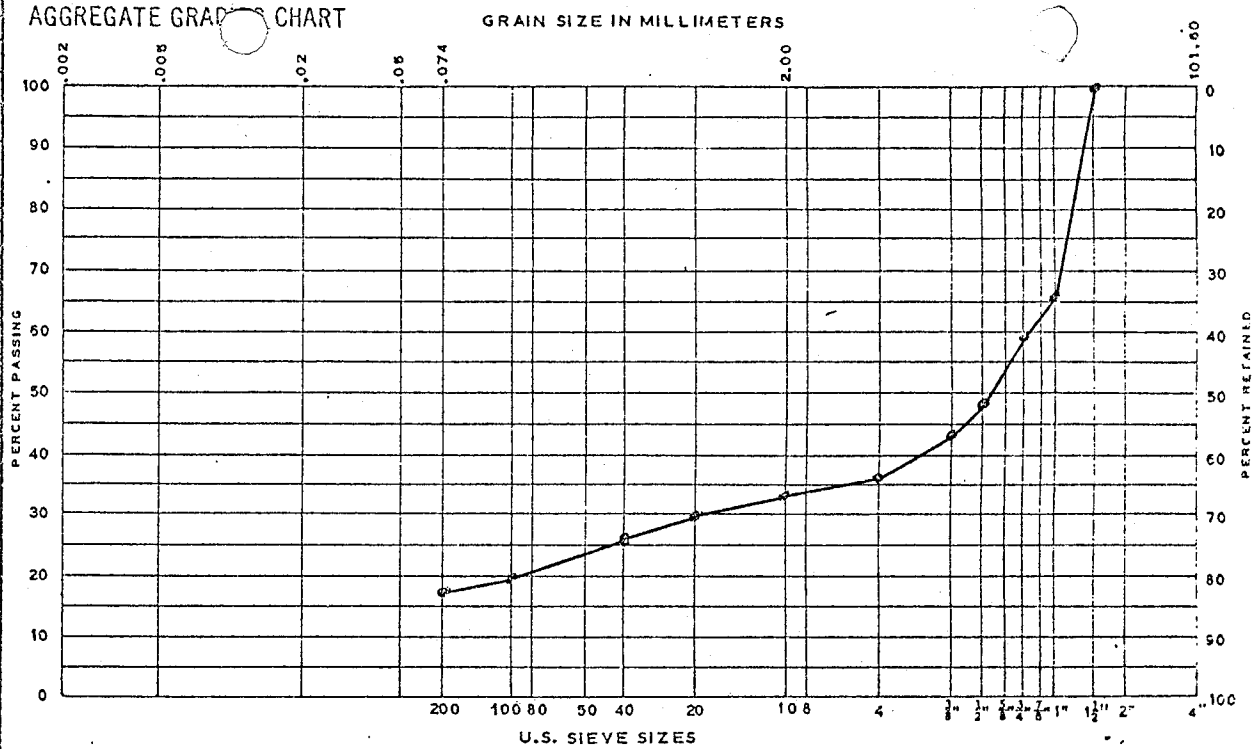
SAMPLE NUMBER

NER Y GHT	%			%
3"	100		# 4	36.4
2"	66.2		# 10	32.8
1½"	59.5		# 20	29.6
1"	48.5		# 40	26.4
¾"	44.3		# 100	20.4
			# 200	17.4

LE D.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b			0.0							
		G.P.										
		POOR TO FAIR GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT

LOCATION DEMPSTER HIGHWAY

HOLE No. DEPTH 3' to 10'

SAMPLE TYPE STA. 3105' DATE SAMPLED JUNE 69

FIELD SAMPLE No. 15 LAB SAMPLE No. 2849

D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

73 A

SHEET OF

SIEVE ANALYSIS

SAMPLE NUMBER

FINER BY EIGHT	%		%
1½"	95.7	# 4	79.7
1 "		# 10	77.6
¾ "	90.0	# 20	74.9
½ "	85.2	# 40	72.1
⅜ "	82.5	# 100	67.0
		# 200	62.9

+ 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			25.2	21.1	4.1							
		A-4										
		M.L.										
		SANDY SILT WITH SLIGHT PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .05 .074 2.00 101.60

PERCENT PASSING: 100 90 80 70 60 50 40 30 20 10 0

200 100 80 50 40 20 10 8 4 ⅜" ½" ¾" 1" 1½" 2" 4"

U.S. SIEVE SIZES

CLAY | SILT | SAND | GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY

LOCATION: STA. 3095'

HOLE No. ..... DEPTH 4' to 10'

SAMPLE TYPE ..... DATE SAMPLED JUNE 69

FIELD SAMPLE No. 16 LAB SAMPLE No. 2850

D. P. W. WHITEHORSE - SOILS LAB

Q. M.

29-3-71

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

1673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

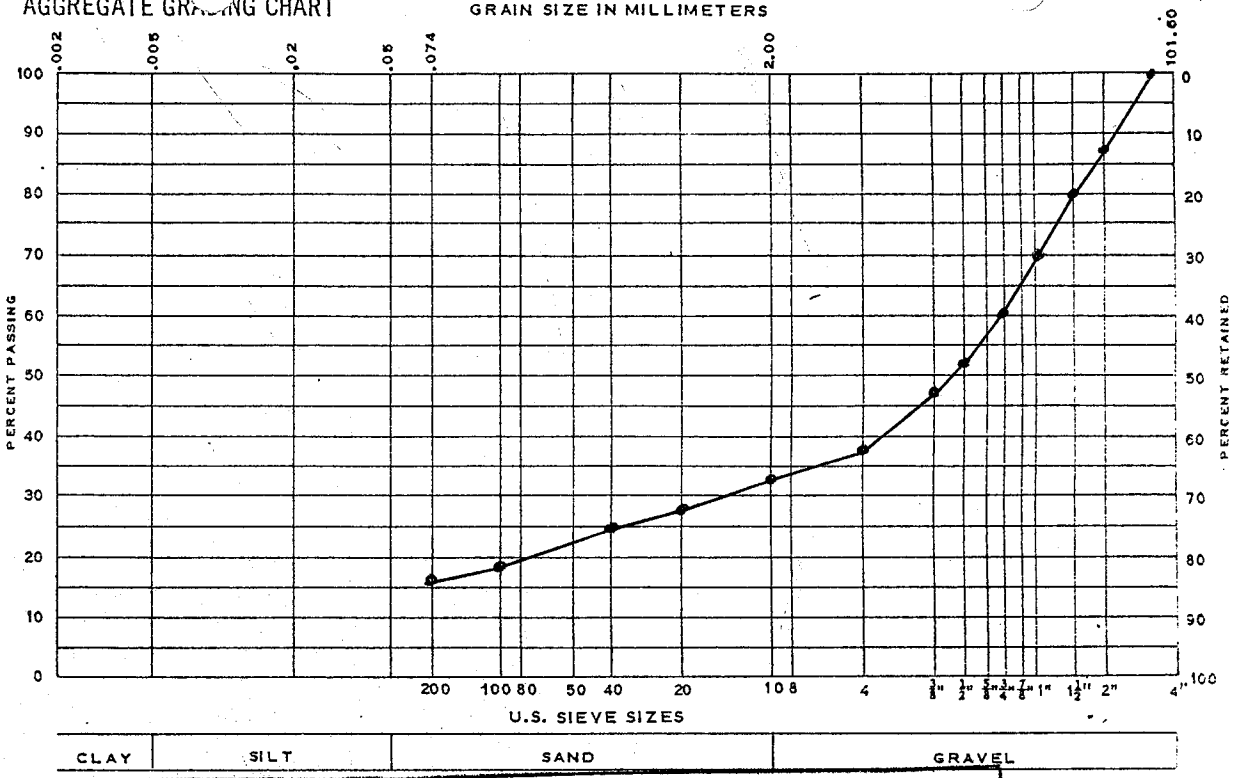
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER									
	%			%						
3"	100		# 4	38.4						
2"	87.7		# 10	33.0						
1½"	79.3		# 20	28.4						
1"	69.2		# 40	24.7						
¾"	60.6		# 100	19.2						
½"	52.7		# 200	16.7						
⅜"	47.4									
% + 4"										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			18.9	17.6			1.3					
		A-1-b										
		G.W.										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 3085

HOLE No. ..... DEPTH 3' - 10'

SAMPLE TYPE ..... DATE SAMPLED JUNE 69

FIELD SAMPLE No. 17 LAB SAMPLE No. 2851

D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

SHEET OF

SIEVE ANALYSIS

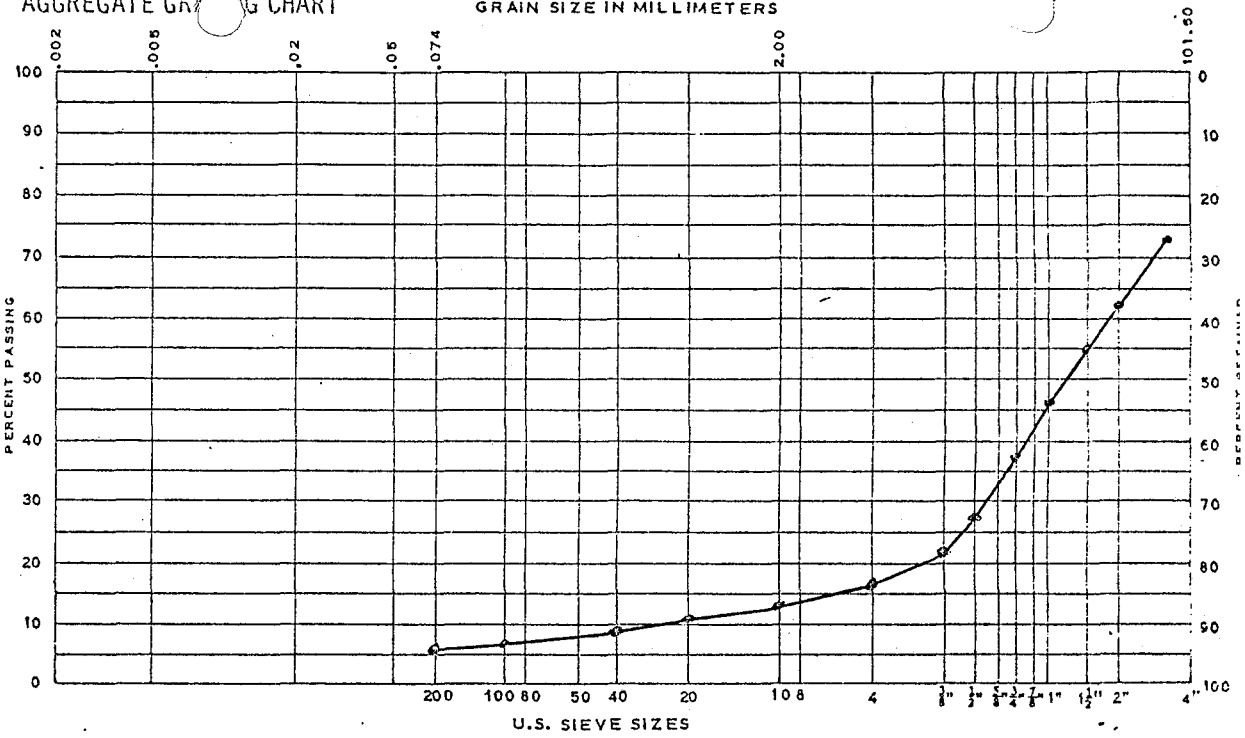
SAMPLE NUMBER

FINER BY WEIGHT	%			
5"	100			
3"	23.2		#4	16.4
2"	62.6		#10	13.4
1½"	55.4		#20	11.1
1"	46.2		#40	9.4
¾"	37.4		#100	7.2
½"	27.3		#200	6.0
⅜"	22.4			
+ 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.P.										
		POOR to FAIR GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT

LOCATION DEMPSTER HIGHWAY

HOLE No. DEPTH 4' to 10'

SAMPLE TYPE STA. 3075 DATE SAMPLED JUNE 69

FIELD SAMPLE No. 18 LAB SAMPLE No. 2852

D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

673 A

SHEET OF

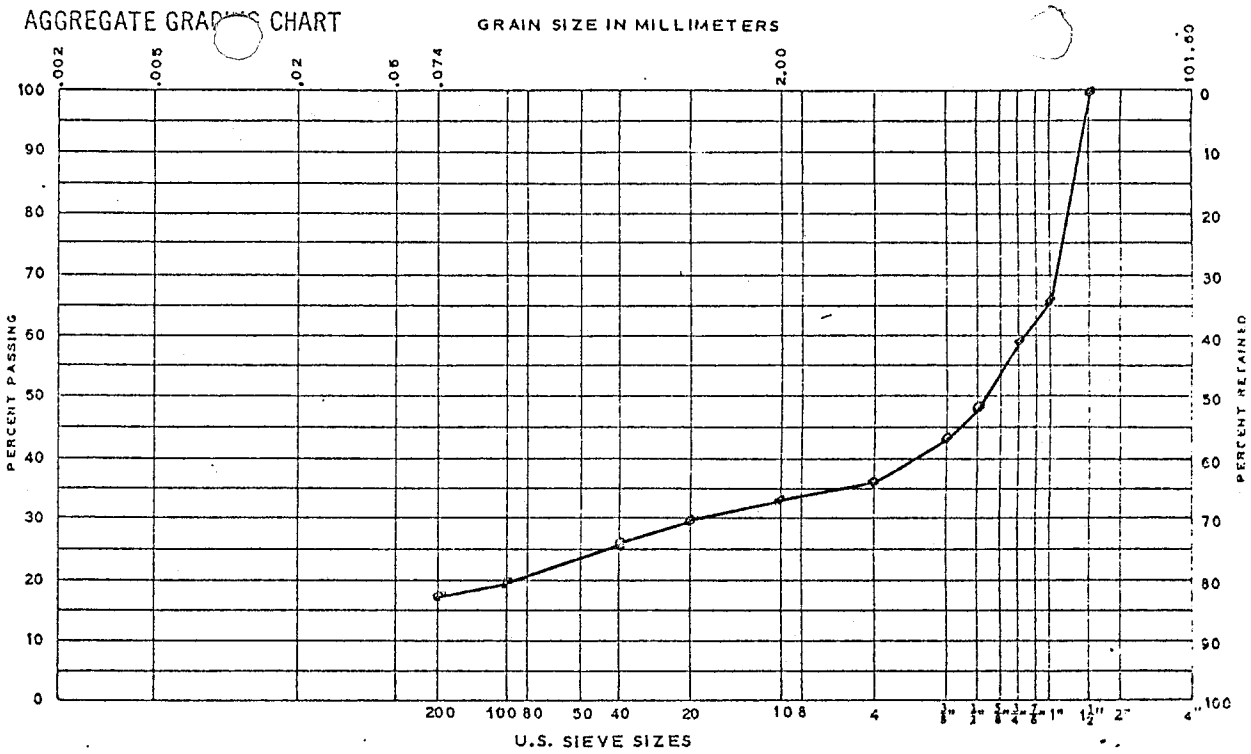
SIEVE ANALYSIS SAMPLE NUMBER			
%			%
100		# 4	36.4
66.2		# 10	32.8
59.5		# 20	29.6
48.5		# 40	26.4
41.3		# 100	20.4
		# 200	17.4

+ 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b			0.0							
		G.P.										
		POOR to FAIR GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT

LOCATION DEMPSTER HIGHWAY

HOLE No. DEPTH 3' to 10'

SAMPLE TYPE STA. 3065' DATE SAMPLED JUNE 69

FIELD SAMPLE No. 19 LAB SAMPLE No. 2853

D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

.73 A

AGGREGATE DEPOSIT REPORT (Cont'd)

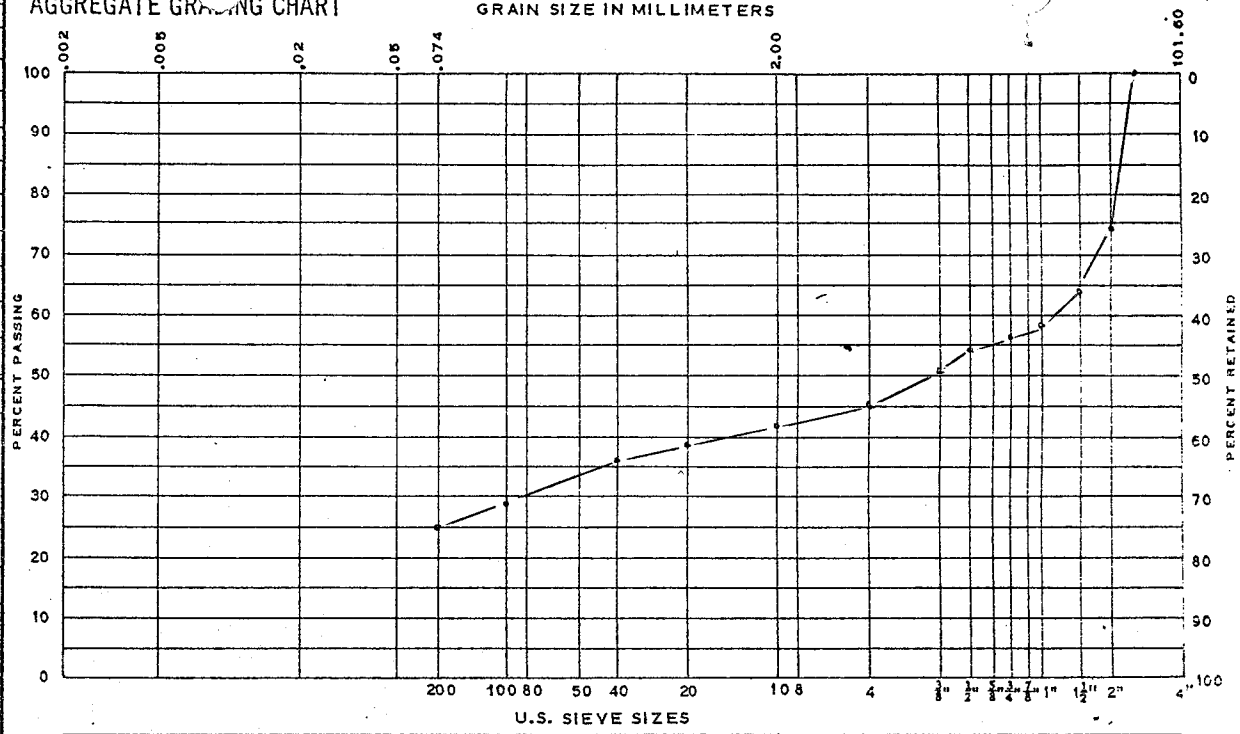
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	3"		54.5	1/2"					
74.3	2		50.4	3/8					
63.9	1 1/2		45.1	#4					
58.4	1		41.9	10					
56.2	3/4		38.7	20					
			35.5	40					
			28.7	100					
			25.1	200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		21.8. 18.4 3.4										
		A-1-b										
		G.P.										
		POORLY GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMASTER HI-WAY.

LOCATION

HOLE No. DEPTH

SAMPLE TYPE DATE SAMPLED JUNE '69

FIELD SAMPLE No. LAB SAMPLE No. 2854 ~~2866~~

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

2854 - 4'-10' STA. 3055 SAMPLE # 20

~~2866 3'-10' " 2980 " #37.~~

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

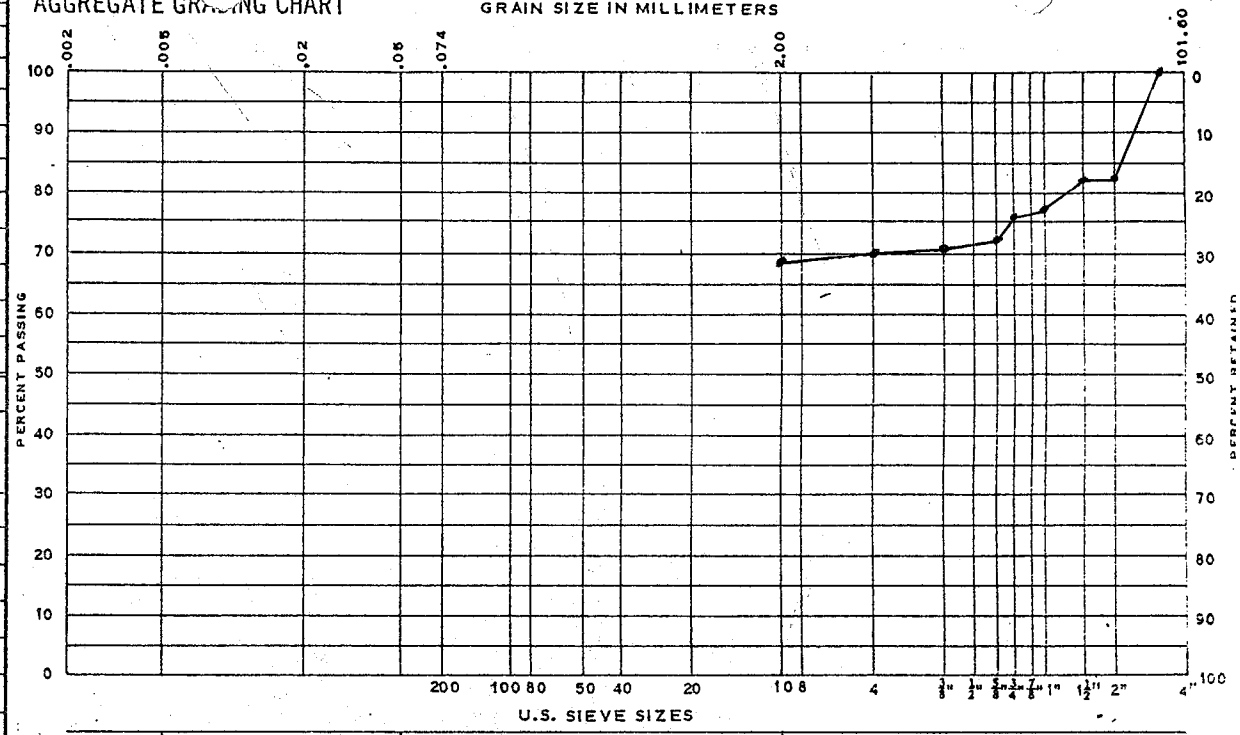
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
3"	100								
2"	82.6								
1½"	82.6								
1"	77.1	MATERIAL PASSING #10							
¾"	75.9	SIEVE LOST.							
½"	72.4								
⅜"	72.0								
#4	70.7								
#10	69.2								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
					0.0							
		M.L. (?)										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY
LOCATION STR. 3045
HOLE No. ..... DEPTH 4' to 10'
SAMPLE TYPE ..... DATE SAMPLED JUNE 69
FIELD SAMPLE No. 21 LAB SAMPLE No. 2855
D. P. W. WHITEHORSE - SOILS LAB

26-3-71

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

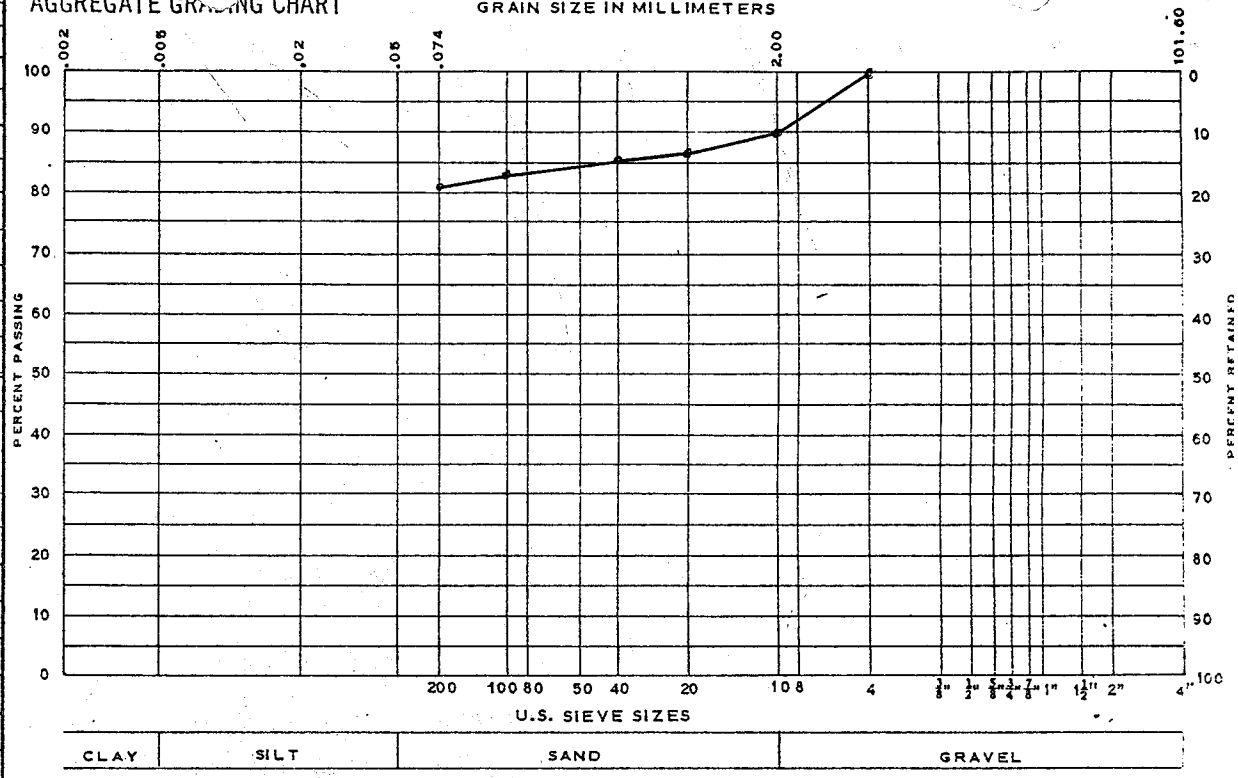
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
#4	100								
#10	90.1								
#20	87.6								
#40	86.1								
#100	83.5								
#200	81.3								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			36.9	25.3			11.6					
		A-6										
		M.L.										
		SAND - CLAYEY SILT WITH LOW TO MED. PLASTICITY MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY
LOCATION STA. 3035'
HOLE NO. DEPTH 4' to 6'
TYPE DATE SAMPLED JUNE 69
SAMPLE No. 22 LAB SAMPLE No. 2856
D. P. W. WHITEHORSE - SOILS LAB

26-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

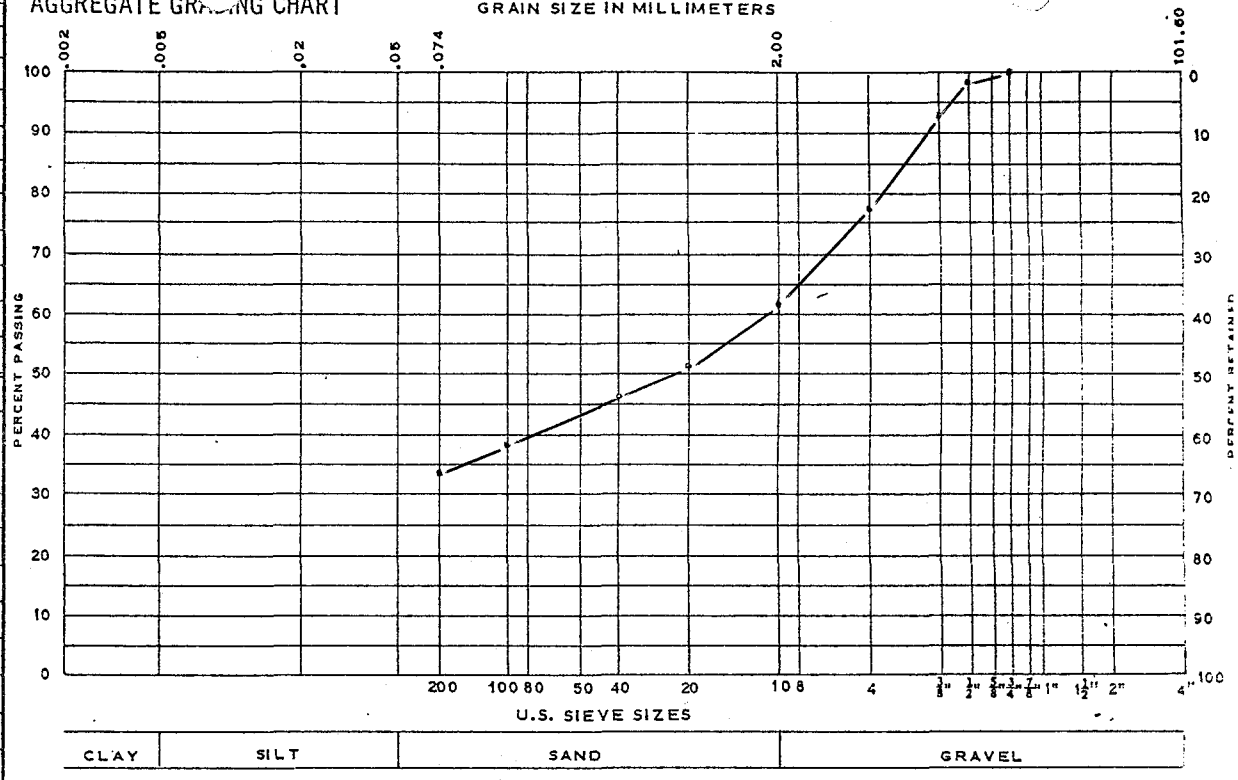
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	3/4"		60.6	#10					
98.4	1/2		51.1	20					
93.2	3/8		46.0	40					
76.6	#4		38.5	100					
			34.1	200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.7	20.7		2.0						
		A-2-4										
		S.M.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA. 3035

HOLE No. ..... DEPTH 6'-10'

SAMPLE TYPE ..... DATE SAMPLED JUNE'69

FIELD SAMPLE No. 23 ..... LAB SAMPLE No. 2857

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

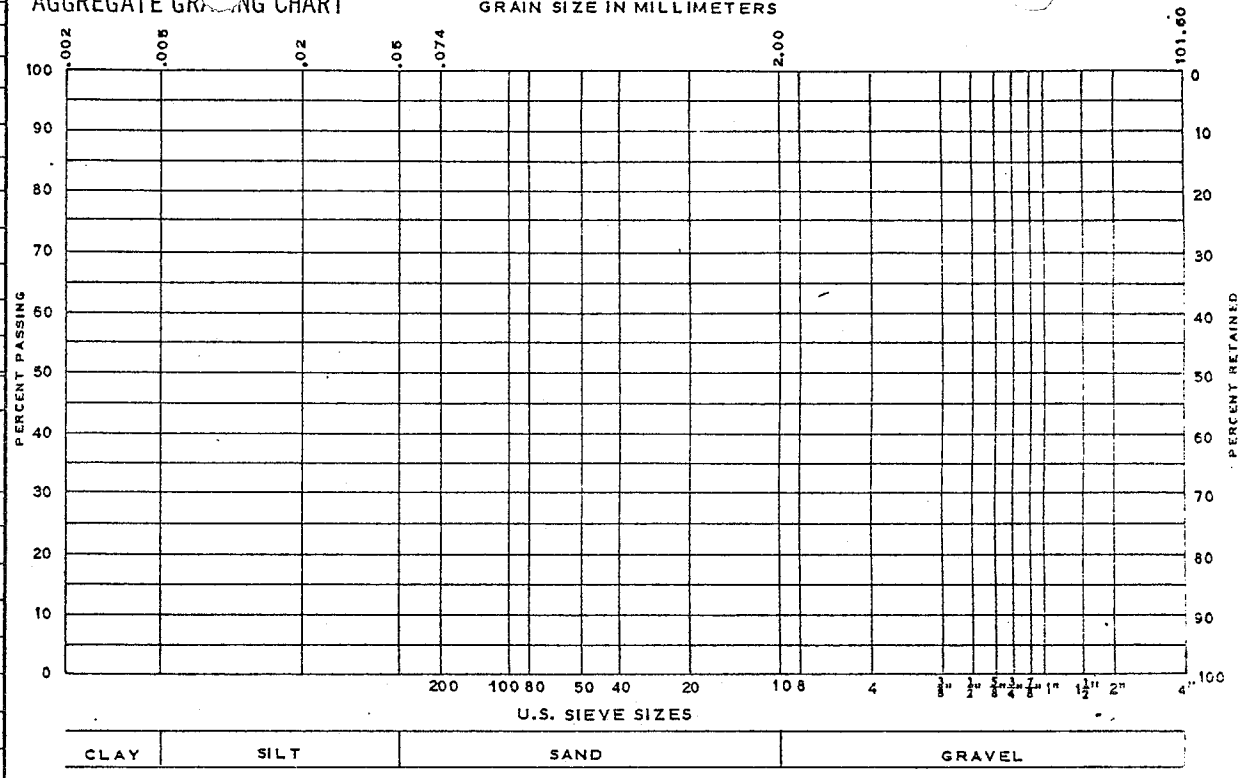
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
	ORGANIC MATERIAL							
	MORE THAN 75% PASSING #200 SIEVE.							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
					OO							
		ORGANIC										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA. 3025

HOLE No. ..... DEPTH 3'-4 1/2'

SAMPLE TYPE ..... DATE SAMPLED JUNE '69

FIELD SAMPLE No. 24 ..... LAB SAMPLE No. 7858

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

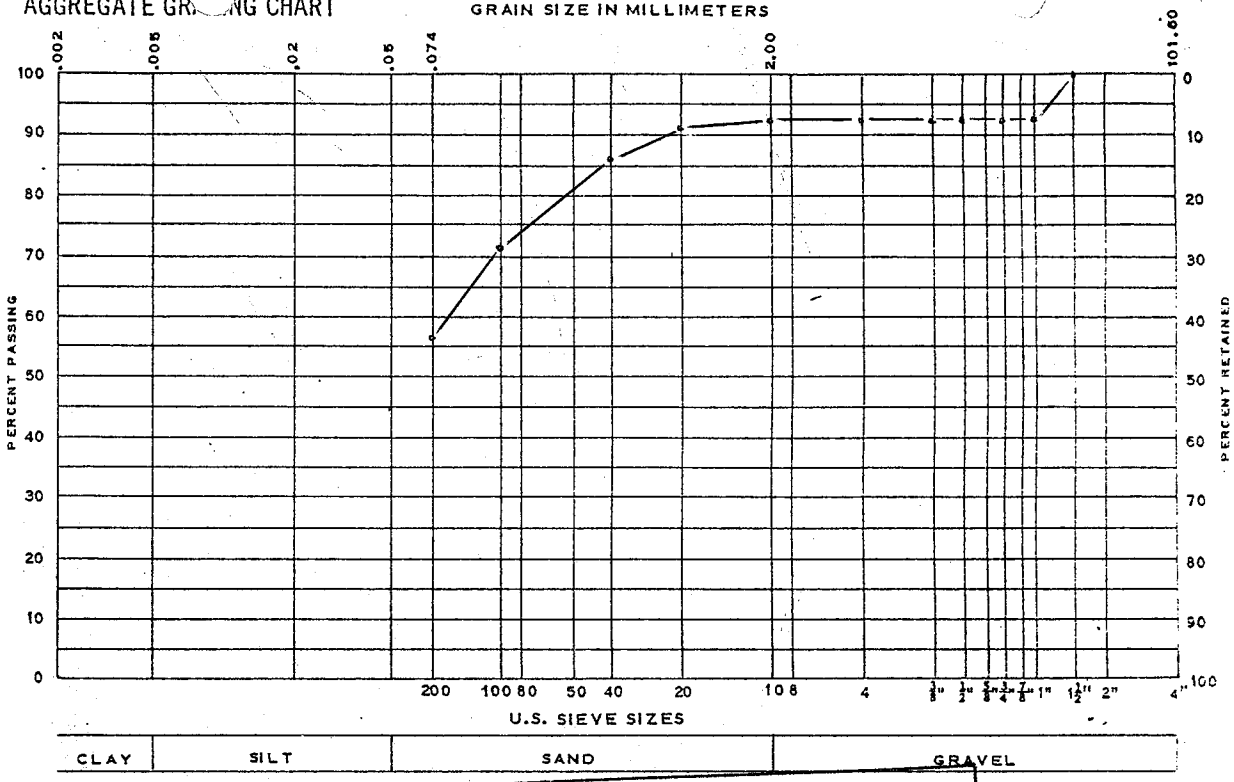
SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	1 1/2"		92.5	#10					
92.7	1		90.7	20					
92.7	3/4		86.1	40					
92.7	1/2		71.0	100					
92.7	3/8		55.7	200					
92.7	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.9	18.9	4.0							
		A-4										
		M.L.										
		SILTY FINE SAND WITH SLIGHT PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT .....

LOCATION DEMPSTER HI-WAY STA. 3025

HOLE No. ..... DEPTH 4 1/2'-10'

SAMPLE TYPE ..... DATE SAMPLED JUNE '69

FIELD SAMPLE No. 25 ..... LAB SAMPLE No. 2859

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

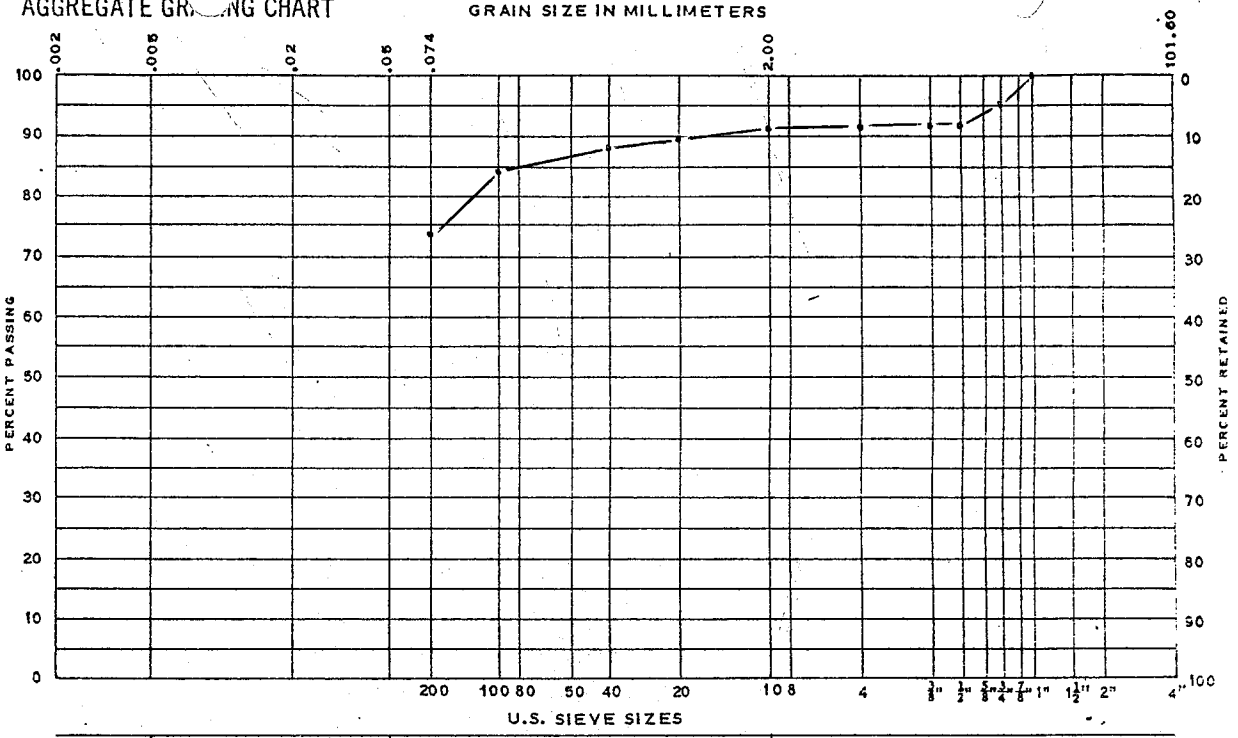
SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	1"		913	#10					
95.3	3/4		89.6	20					
92.0	1/2		88.0	40					
91.5	3/8		84.5	100					
91.5	#4		73.8	200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			30.1	27.4	2.7							
		A-4										
		M.L.										
		SANDY SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA. 3015

HOLE No. ..... DEPTH 4'-8'

SAMPLE TYPE ..... DATE SAMPLED JUNE '69

FIELD SAMPLE No. 26 ..... LAB SAMPLE No. 7860

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

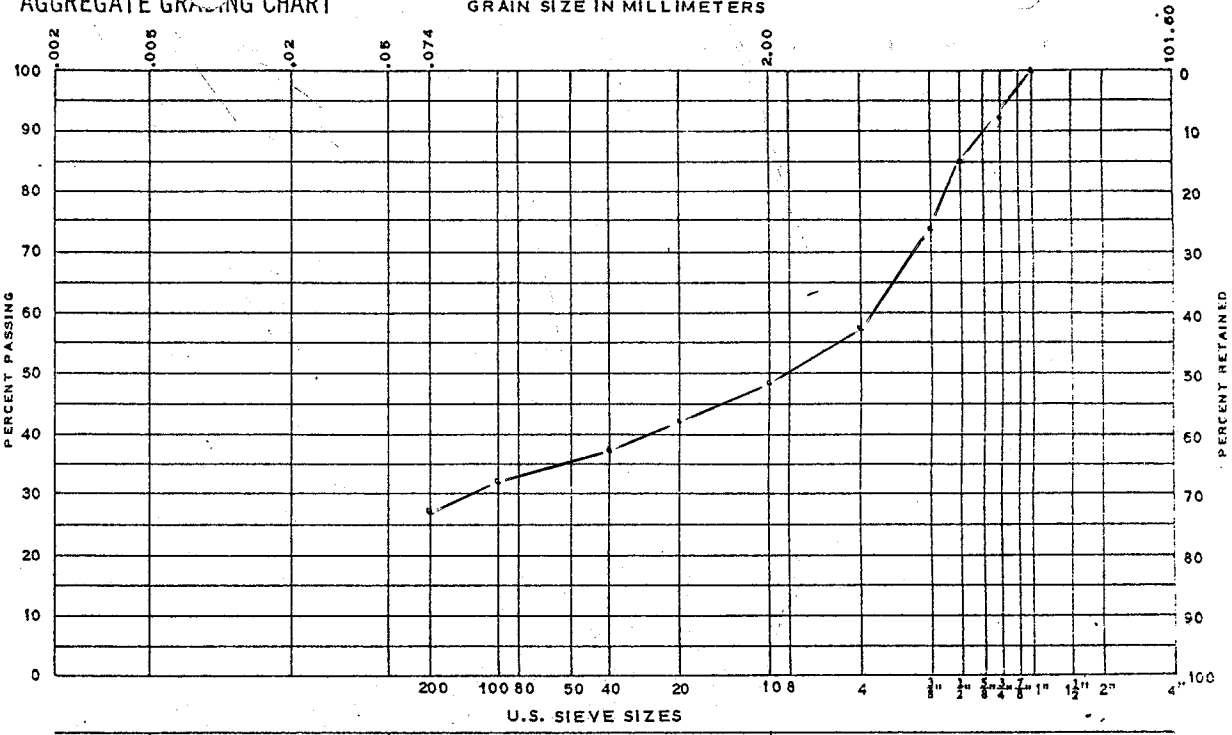
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	1"		48.0	#10					
91.7	3/4		42.1	20					
85.0	1/2		37.6	40					
74.0	3/8		31.7	100					
57.5	#4		27.0	200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.7	20.7		2.0						
		A-2-4										
		S.M.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY.

LOCATION STA. 3015

HOLE No. ..... DEPTH 8'-10'

SAMPLE TYPE ..... DATE SAMPLED .....

FIELD SAMPLE No. 27 ..... LAB SAMPLE No. 2861

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE 25-3-71

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE .....

AGGREGATE DEPOSIT REPORT (Cont'd)

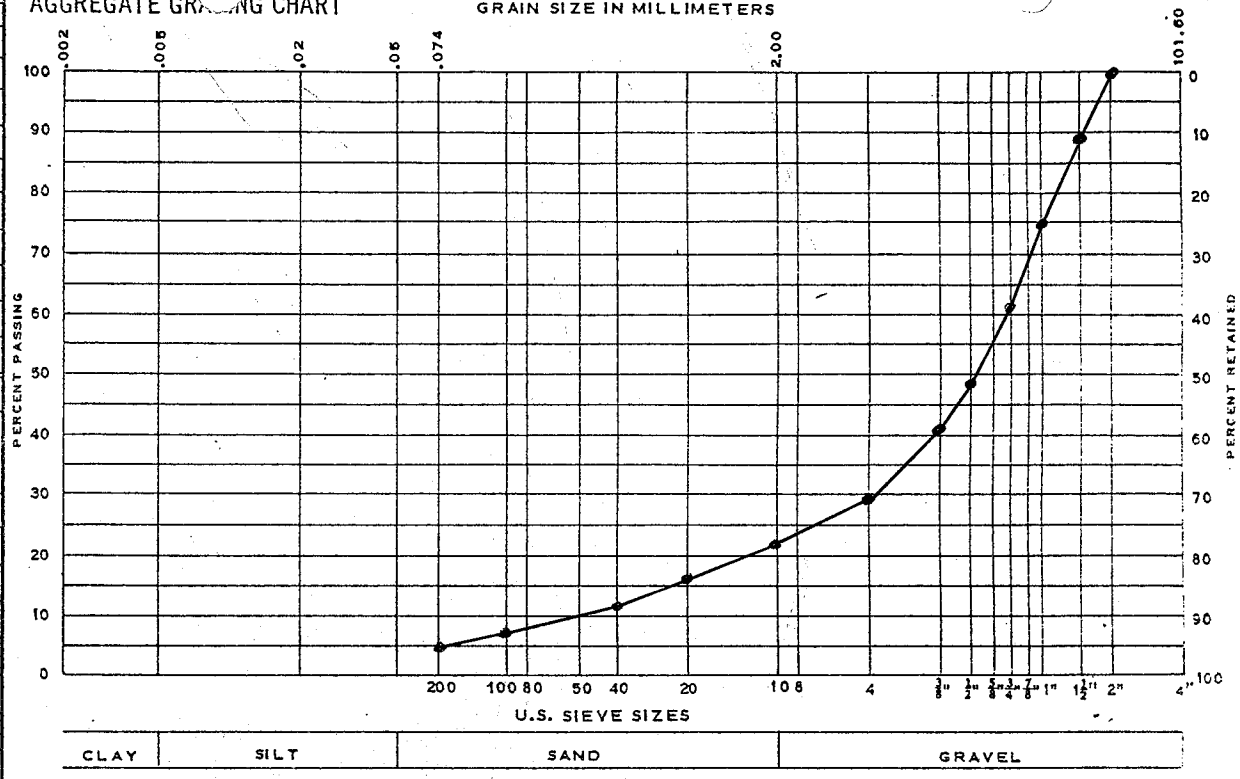
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	%			%					
2"	100		# 4	29.4					
1½"	88.9		# 10	22.1					
1 "	74.4		# 20	16.0					
¾ "	61.0		# 40	11.8					
½ "	48.5		# 100	7.2					
⅜"	41.1		# 200	5.4					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			00							
		G.W.										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2995

HOLE No. ..... DEPTH 2½' to 10'

SAMPLE TYPE ..... DATE SAMPLED JUNE 69

FIELD SAMPLE No. 29 LAB SAMPLE No. 2863

D. P. W. WHITEHORSE - SOILS LAB

J. M

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	%	SIEVE ANALYSIS SAMPLE NUMBER							
5"	100								
3"	73.2		# 4	16.4					
2"	62.6		# 10	13.4					
1½"	55.4		# 20	11.1					
1"	46.2		# 40	9.4					
¾"	37.4		# 100	7.2					
½"	27.3		# 200	6.0					
⅜"	22.4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.P.										
		POOR to FAIR GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .05 .074 2.00 101.60

PERCENT PASSING (100 90 80 70 60 50 40 30 20 10 0)

PERCENT RETAINED (0 10 20 30 40 50 60 70 80 90 100)

200 100 80 50 40 20 10 8 4 ⅜" ½" ⅝" ¾" ⅞" 1" 1½" 2" 4"

U.S. SIEVE SIZES

CLAY | SILT | SAND | GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT

LOCATION DEMPSTER HIGHWAY

HOLE No. DEPTH 2' to 10'

SAMPLE TYPE STA. 2990 DATE SAMPLED JUNE 69

FIELD SAMPLE No. 30 LAB SAMPLE No. 2864

D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

SHEET OF

SIEVE ANALYSIS

SAMPLE NUMBER

FINER BY WEIGHT	%			
5"	100			
3"	73.2	#4	16.4	
2"	62.6	#10	13.4	
1½"	55.4	#20	11.1	
1"	46.2	#40	9.4	
¾"	37.4	#100	7.2	
½"	27.3	#200	6.0	
⅜"	22.4			
+ 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.P.										
		POOR to FAIR GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .05 .074 2.00 101.50

PERCENT PASSING 100 90 80 70 60 50 40 30 20 10 0

PERCENT RETAINED 0 10 20 30 40 50 60 70 80 90 100

200 100 80 50 40 20 10 8 4 ⅜" ½" ⅝" ¾" 1" 1½" 2" 4"

U.S. SIEVE SIZES

CLAY | SILT | SAND | GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT

LOCATION DEMPSTER HIGHWAY

HOLE No. DEPTH 3' to 10'

SAMPLE TYPE STA. 2985 DATE SAMPLED JUNE 69

FIELD SAMPLE No. 31 LAB SAMPLE No. 2865

D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

573 A

AGGREGATE DEPOSIT REPORT (Cont'd)

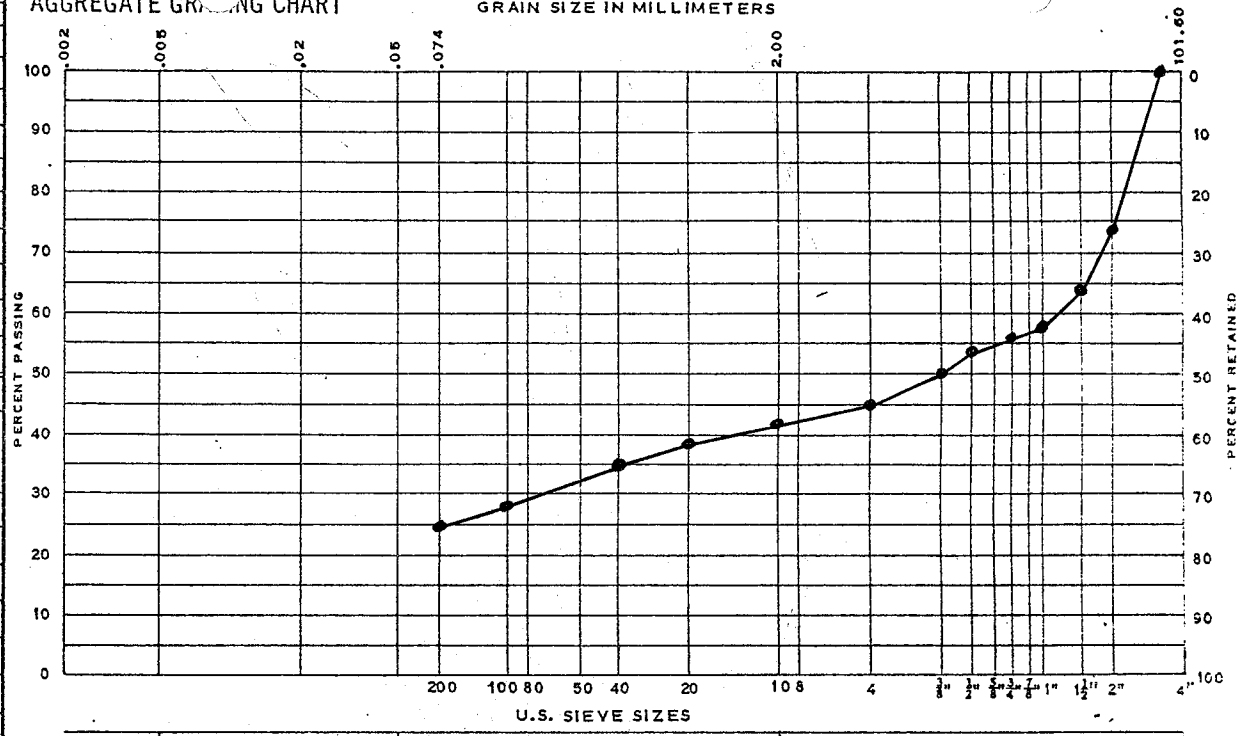
SHEET

% FINER BY WEIGHT	%	SIEVE ANALYSIS SAMPLE NUMBER		%
3"	100		# 4	45.1
2"	74.3		# 10	41.9
1½"	63.9		# 20	38.7
1"	58.4		# 40	35.5
¾"	56.2		# 100	28.7
½"	54.5		# 200	25.1
⅜"	50.4			
% + 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.8	18.4	3.4							
		A-1-b										
		G.P.										
		POORLY GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT
LOCATION DEMPSTER HIGHWAY
HOLE No. DEPTH 3' - 10'
SAMPLE TYPE STA. 2980 DATE SAMPLED JUNE 69
FIELD SAMPLE No. 32 LAB SAMPLE No. 2866
D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER — DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER — DATE

SHEET OF

SIEVE ANALYSIS

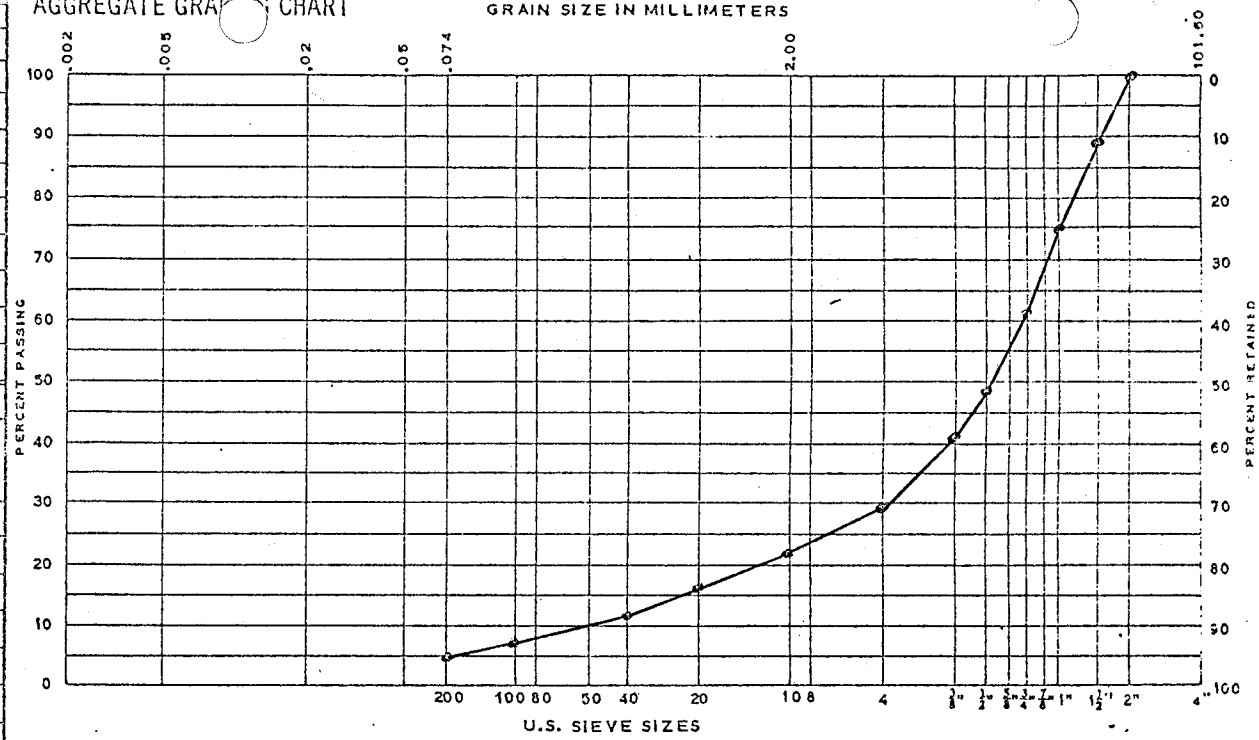
SAMPLE NUMBER

INER BY GHT	%		%
3"	100	# 4	29.4
1½"	88.9	# 10	22.1
"	74.4	# 20	16.0
½"	61.0	# 40	11.8
"	48.5	# 100	7.2
3/4"	41.1	# 200	5.4
+ 4"			

PLE O.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			00							
		G.W.										
	WELL	GRADED	GRAVEL									

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2975'

HOLE No. DEPTH 9' to 10'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 33 LAB SAMPLE No. 2867

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

29-3-71
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

73 A

AGGREGATE DEPOSIT REPORT (Cont'd)

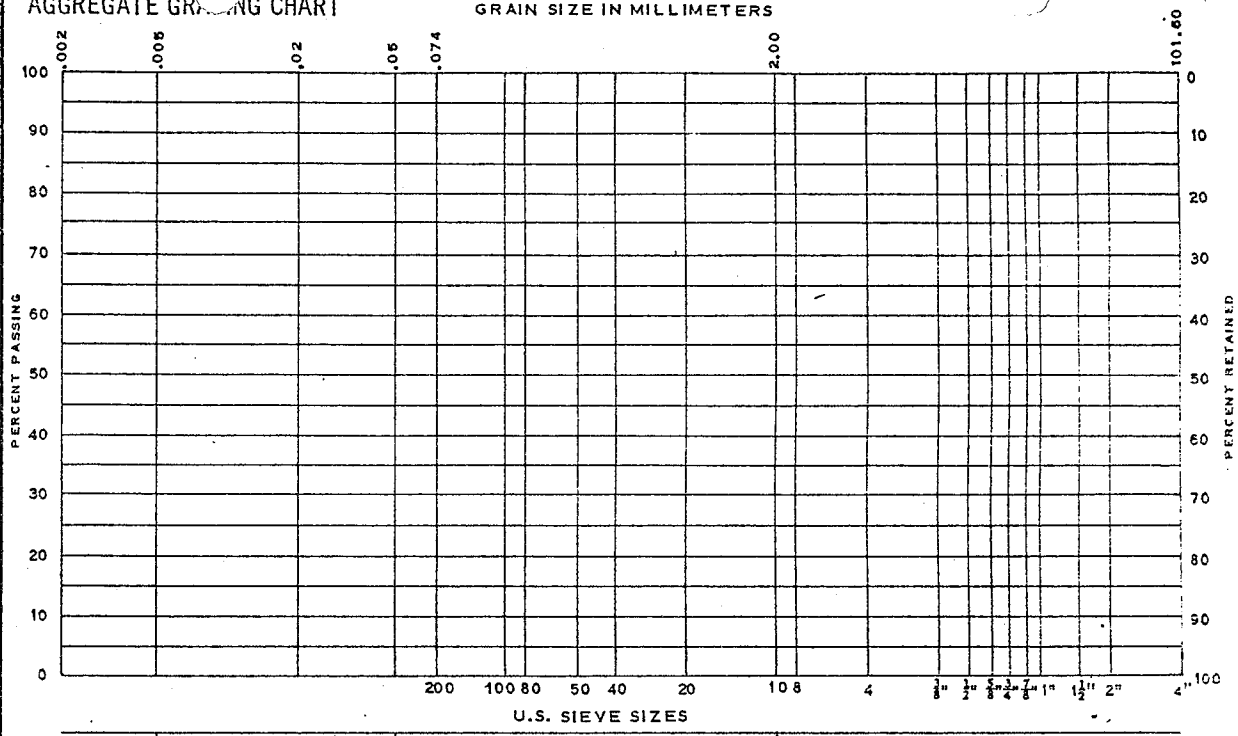
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	ORGANIC MATERIAL								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
					NP							
		ORGANIC										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA. 2970

HOLE No. ..... DEPTH 4½'-10'

SAMPLE TYPE ..... DATE SAMPLED JUNE '69

FIELD SAMPLE No. 34 ..... LAB SAMPLE No. 2868

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

23-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

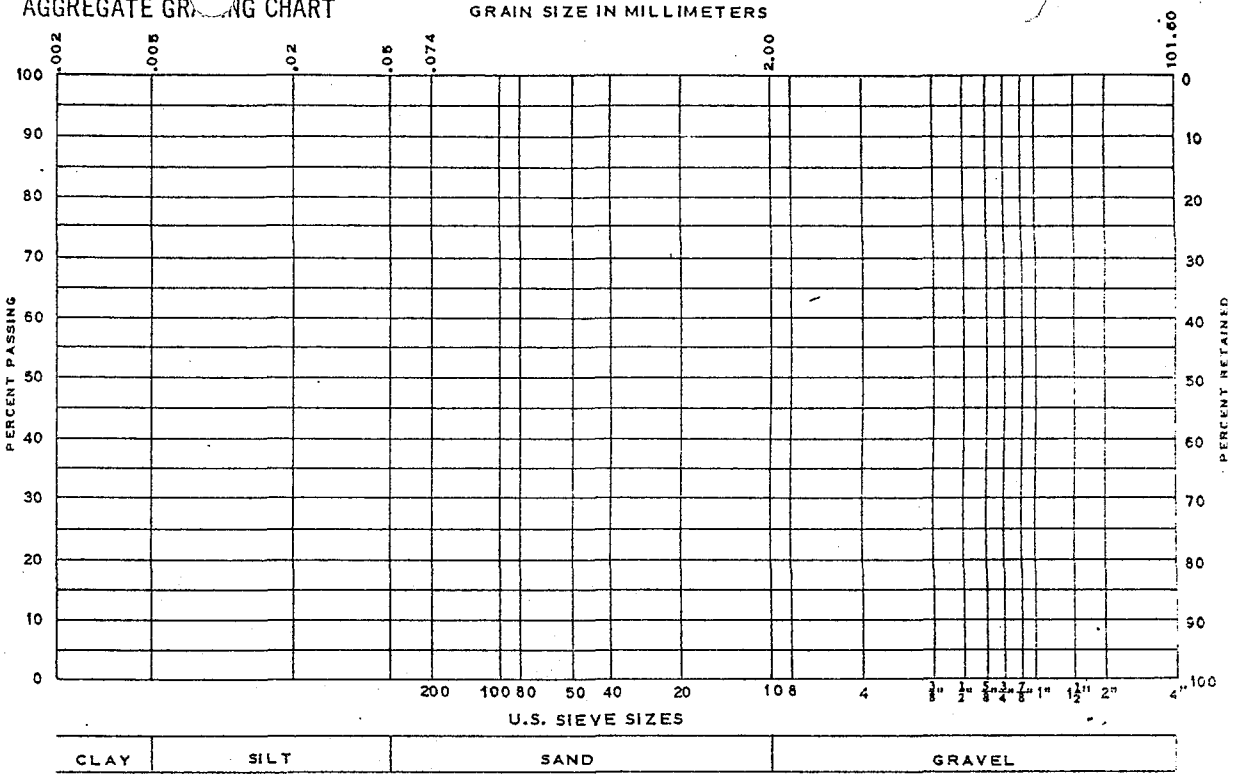
SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
	ORGANIC MATERIAL							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		ORGANIC										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY.

LOCATION STA. 2965

HOLE No. ..... DEPTH 5'-7'

SAMPLE TYPE ..... DATE SAMPLED 9-6-69

FIELD SAMPLE No. 35 LAB SAMPLE No. 2869

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

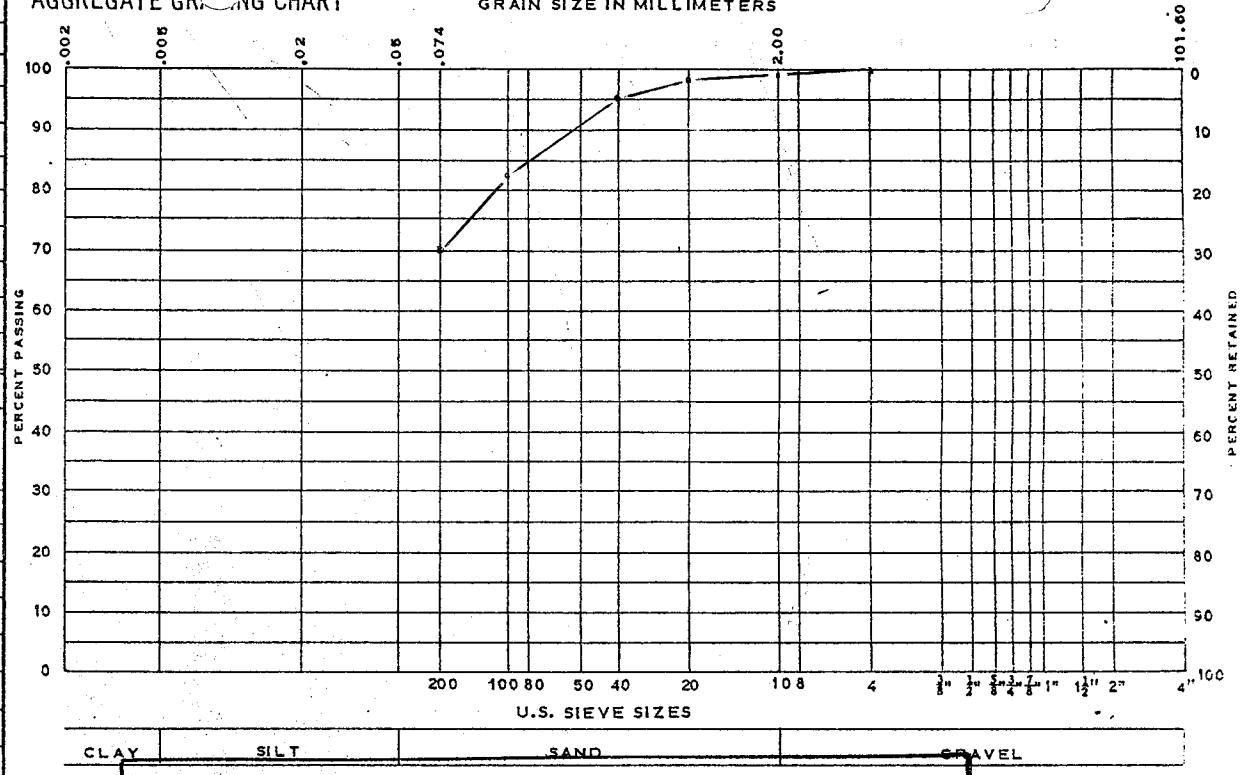
SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER
100.0	#4
99.3	10
98.2	20
94.9	40
82.3	100
70.0	200
% + 4"	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			30.1	27.4	2.7							
		A-4										
		M.L.										
		SANDY SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY REMARKS

PROJECT

LOCATION DEMPSTER HI-WAY STA. 2965

HOLE No. DEPTH 7'-10'

SAMPLE TYPE DATE SAMPLED JUNE '69

FIELD SAMPLE No. 36 LAB SAMPLE No. 2870

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

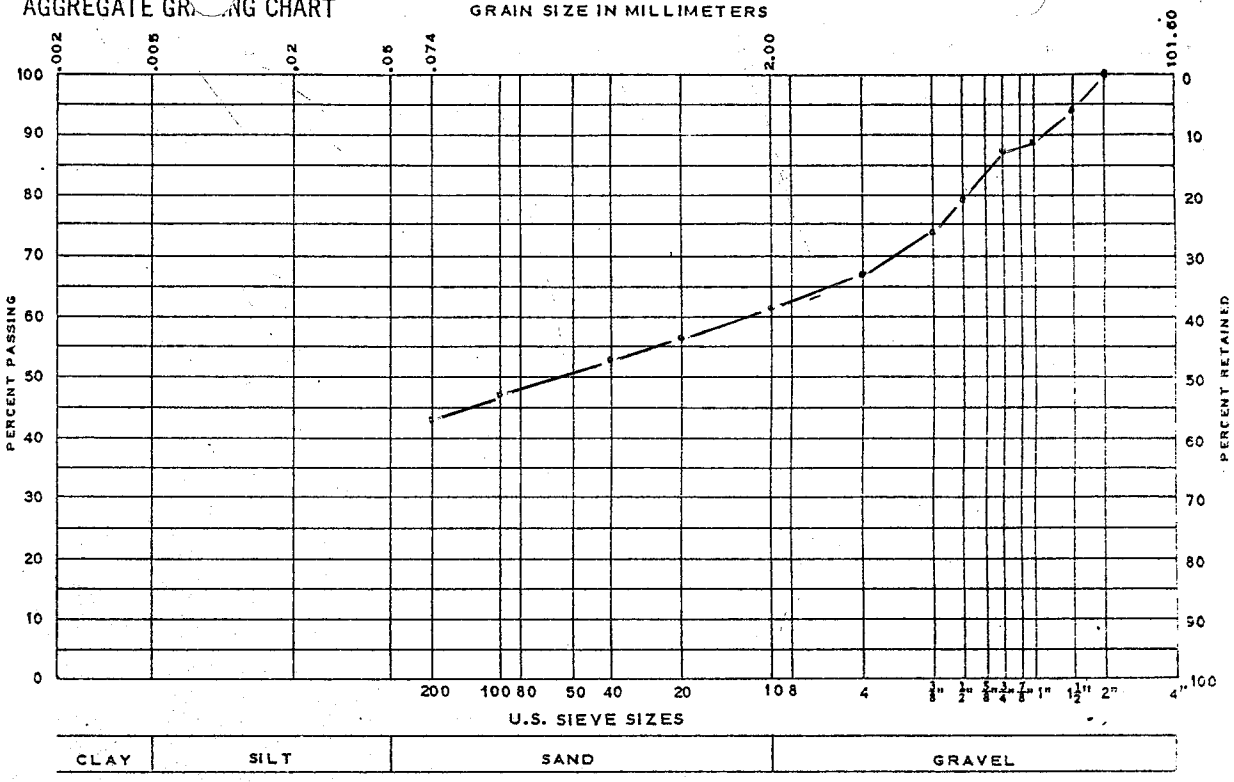
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	2"		74.0	3/8					
94.5	1½		66.6	#4					
89.2	1		60.6	10					
87.6	¾		56.6	20					
79.7	½		52.8	40					
			46.5	100					
			43.3	200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.7	17.0	4.7							
		A-4										
		S.M. - S.C.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA. 2960

HOLE No. ..... DEPTH 3'-10'

SAMPLE TYPE ..... DATE SAMPLED JUNE '69

FIELD SAMPLE No. 37 ..... LAB SAMPLE No. 2871

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

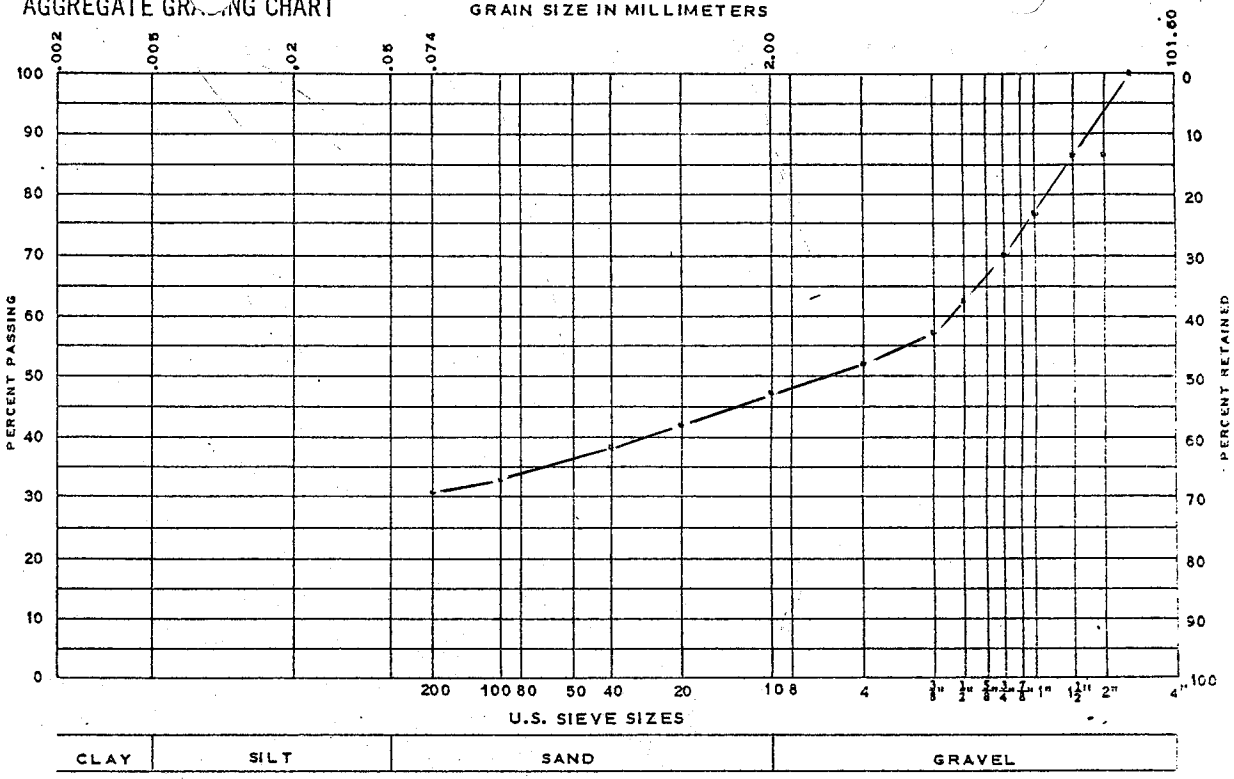
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	3"		47.2	#10					
86.3	2		42.3	20					
86.3	1 1/2		38.6	40					
76.4	1		33.3	100					
69.8	3/4		30.5	200					
62.6	1/2								
57.1	3/8								
57.7	#4								
% + 4"									

AMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.7	20.7	2.0							
		A-2-4										
		S.M.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA. 2955

HOLE No. ..... DEPTH 6'-10'

SAMPLE TYPE ..... DATE SAMPLED .....

FIELD SAMPLE No. 38 ..... LAB SAMPLE No. 2872

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

SHEET OF

SIEVE ANALYSIS

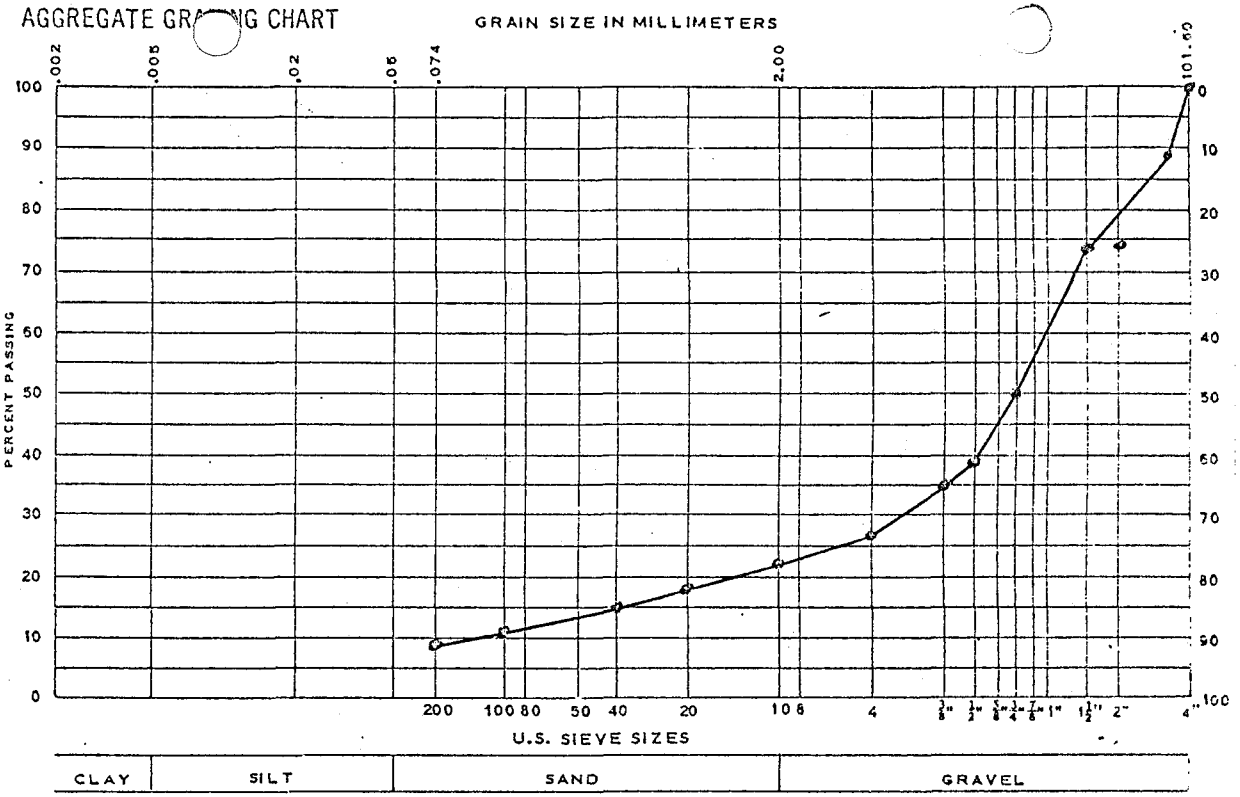
SAMPLE NUMBER

FINER BY WEIGHT	%			%
4"	100		#4	27.0
3"	88.4		#10	22.5
2"	74.0		#20	18.0
1½"	74.0		#40	15.0
1"	64.3		#100	11.4
¼"	49.4		#200	9.5
½"	39.6			
⅜"	34.7			
+ 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.W.										
		FAIRLY WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2950 DEPTH 3' to 10'

HOLE No. DATE SAMPLED JUNE 69

SAMPLE TYPE LAB SAMPLE No. 2873

FIELD SAMPLE No. 39

D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

673 A

SHEET OF

SIEVE ANALYSIS

SAMPLE NUMBER

FINER BY WEIGHT	%			
5"	100			
3"	73.2	#4	16.4	
2"	62.6	#10	13.4	
1½"	55.4	#20	11.1	
1"	46.2	#40	9.4	
¾"	37.4	#100	7.2	
½"	27.3	#200	6.0	
⅜"	22.4			

+ 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.P.										
		POOR to FAIR GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .05 .074 2.00 101.50

PERCENT PASSING

100 90 80 70 60 50 40 30 20 10 0

0 10 20 30 40 50 60 70 80 90 100

200 100 80 50 40 20 10 8 4 ⅜" ½" ¾" 1" 1½" 2" 4"

U.S. SIEVE SIZES

CLAY | SILT | SAND | GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT

LOCATION DEMPSTER HIGHWAY

HOLE No. DEPTH 2' to 10'

SAMPLE TYPE STA. 2945 DATE SAMPLED JUNE 69

FIELD SAMPLE No. 40 LAB SAMPLE No. 2874

D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

573 A

SHEET OF

SIEVE ANALYSIS

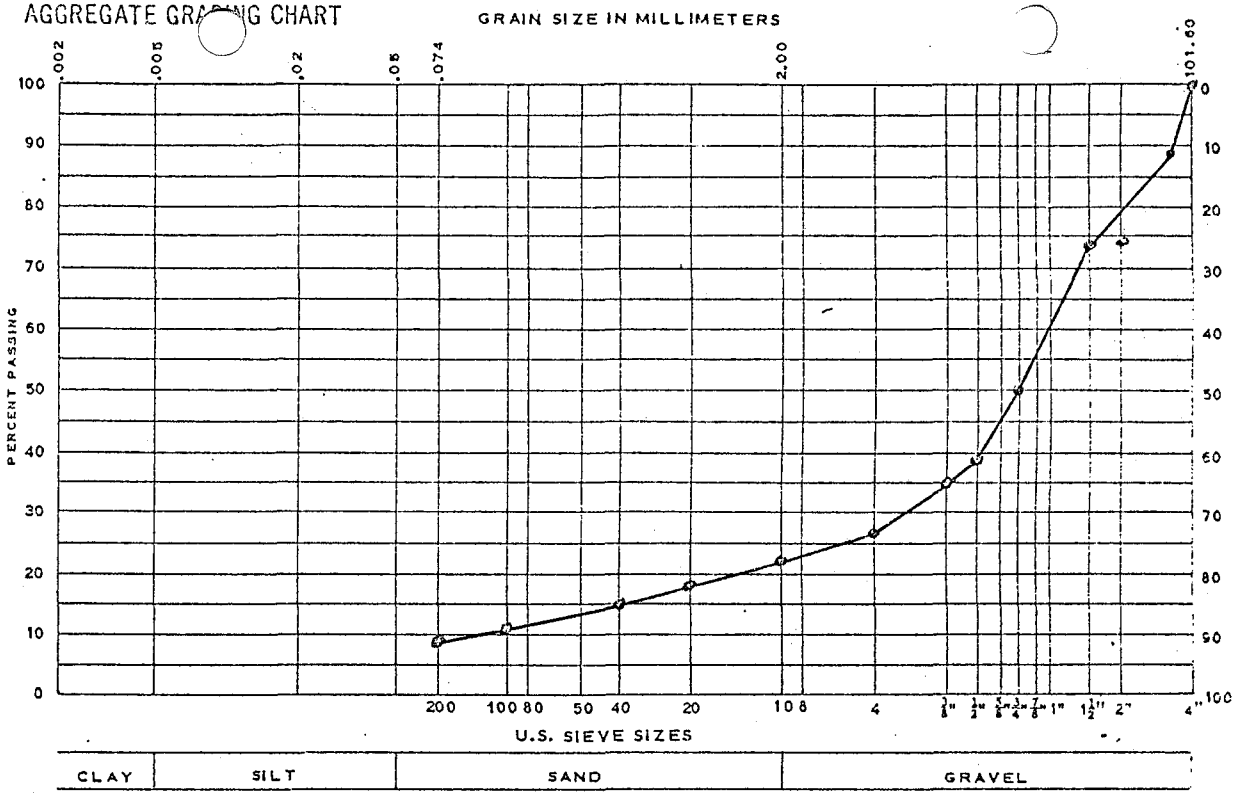
SAMPLE NUMBER

FINER BY EIGHT	%			%
4"	100		#4	27.0
3"	88.4		#10	22.5
2"	74.0		#20	18.0
1½"	74.0		#40	13.0
1"	64.3		#100	11.4
¾"	49.4		#200	9.5
½"	39.6			
⅜"	34.7			
+ 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.W.										
		FAIRLY WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2940 DEPTH 3' to 10'

HOLE No. DATE SAMPLED JUNE 69

SAMPLE TYPE

FIELD SAMPLE No. 41 LAB SAMPLE No. 2875

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

29-3-71

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

673 A

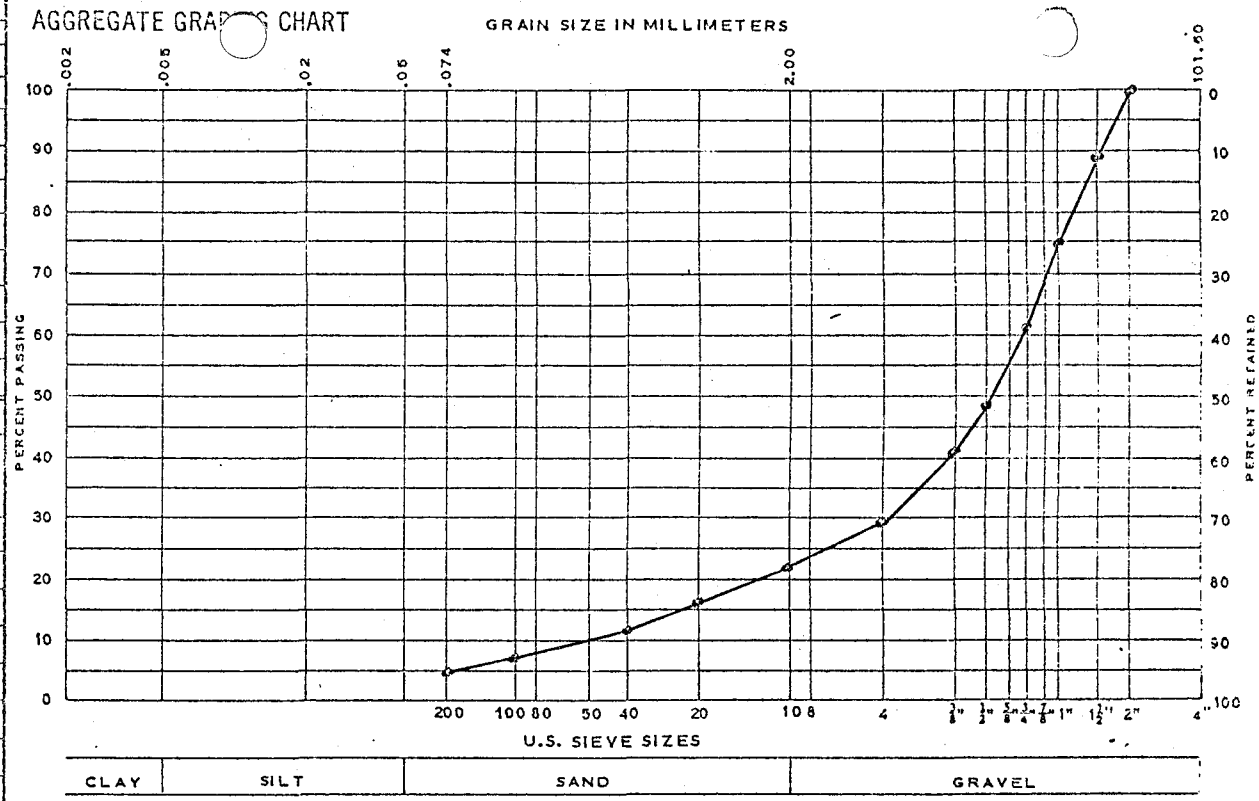
SHEET OF

INER BY IGHT	SIEVE ANALYSIS SAMPLE NUMBER									
	%			%						
3"	100		# 4	29.4						
1½"	88.9		# 10	22.1						
"	74.4		# 20	16.0						
1"	61.0		# 40	11.8						
"	48.5		# 100	7.2						
3"	41.1		# 200	5.4						
+ 4"										

PLE O.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSnG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			00							
		G.W.										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2935'

HOLE No. DEPTH 3' to 10'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 42 LAB SAMPLE No. 2876

D. P. W. WHITEHORSE - SOILS LAB

D. M.

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

573 A

AGGREGATE DEPOSIT REPORT (Cont'd)

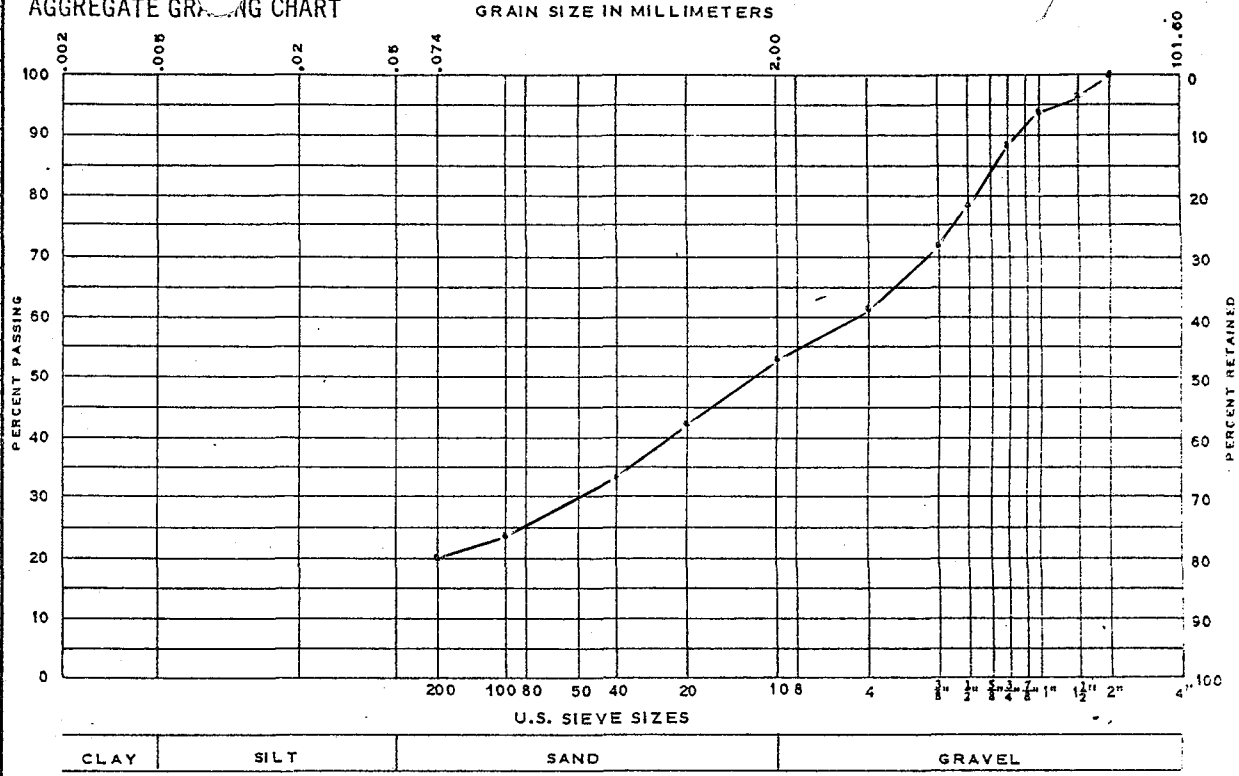
SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	2"		61.2	#4					
96.2	1 1/2		53.1	10					
94.1	1		42.7	20					
88.5	3/4		33.6	40					
78.8	1/2		23.9	100					
71.7	3/8		20.0	200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.8	18.4	3.4							
		A-1-b										
		G.W.										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA. 2930

HOLE No. ..... DEPTH 3'-10'

SAMPLE TYPE ..... DATE SAMPLED JUNE '69.

FIELD SAMPLE No. 43 ..... LAB SAMPLE No. 2877

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

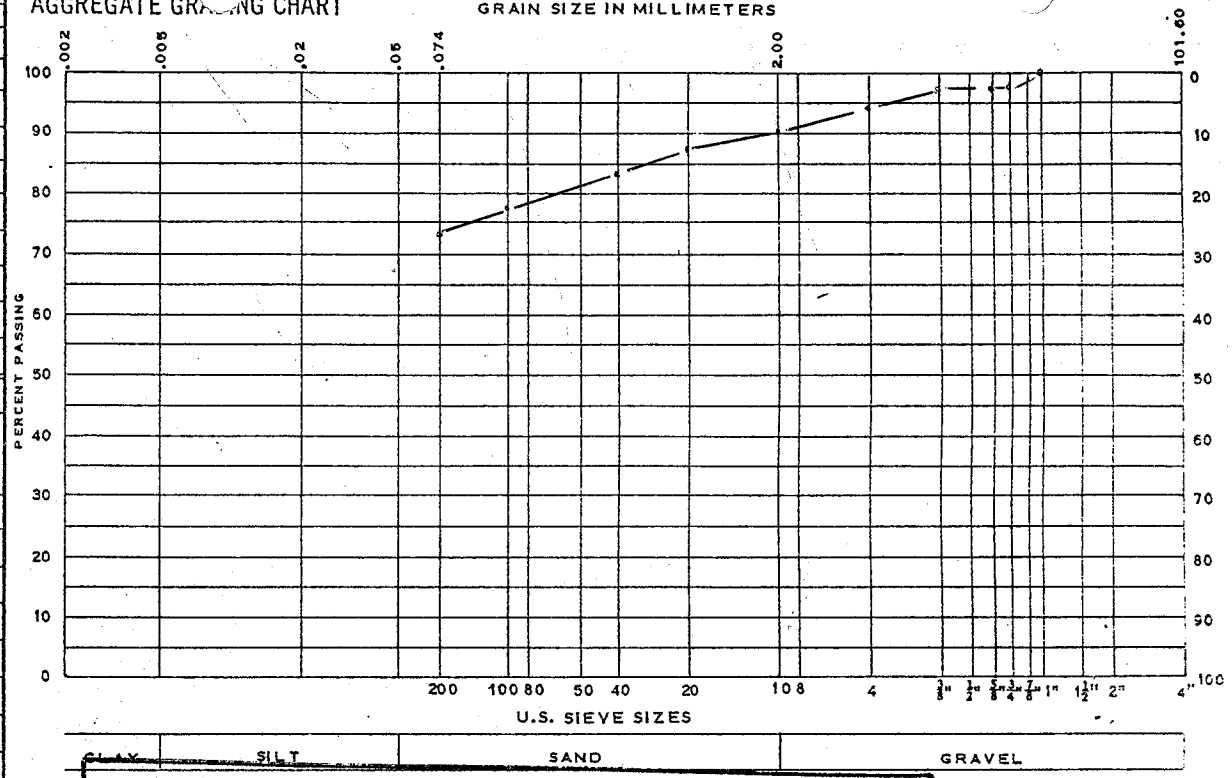
SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	1"		90.3	#10					
97.6	3/4		86.6	20					
97.6	1/2		83.7	40					
97.6	3/8		77.8	100					
94.7	#4		73.4	200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			30.1	27.4	2.7							
		A-4										
		M.L.										
		SANDY SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT

LOCATION DEMPSTER HI-WAY STA. 2925

HOLE No. DEPTH 4'-9"

SAMPLE TYPE DATE SAMPLED JUNE '69

FIELD SAMPLE No. 44 LAB SAMPLE No. 2878

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER C.B. DATE 25-3-71

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

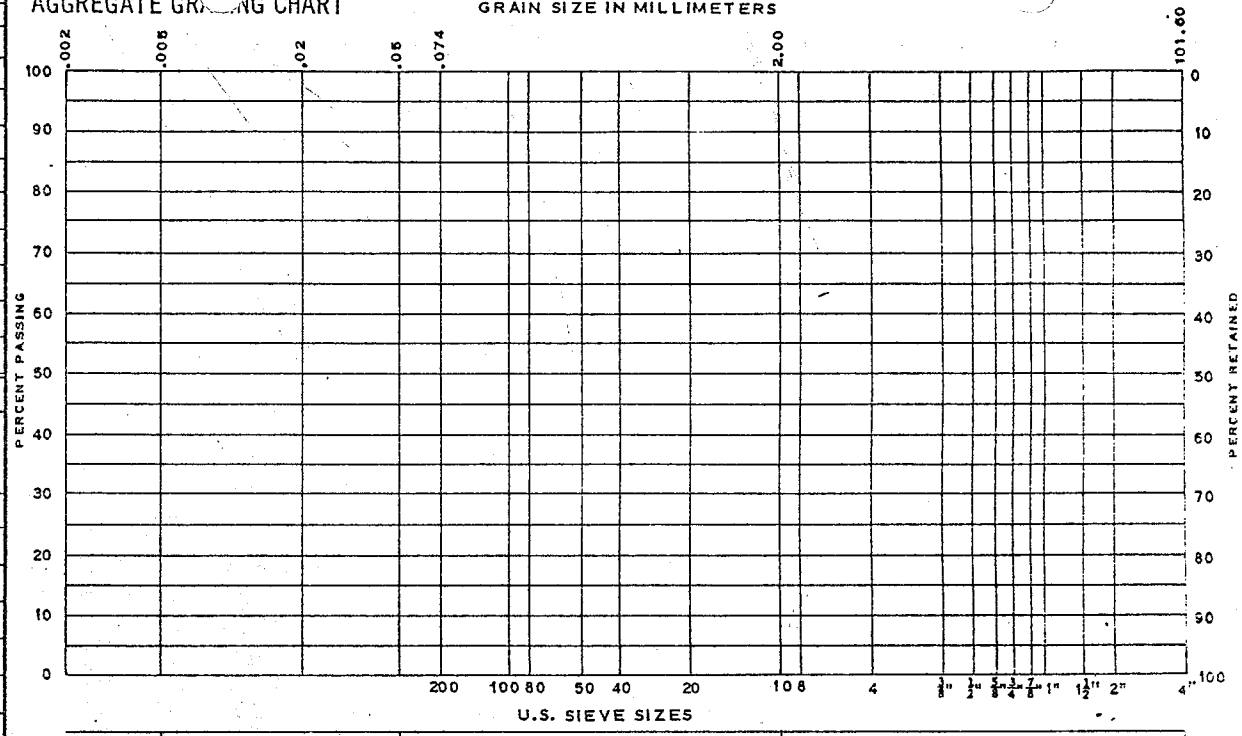
SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	96.5% PASSING #200 SIEVE								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
					0.0							
		A-4 M.L. SILT - FINE SAND MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2920

HOLE No. ..... DEPTH 5' to 10'

SAMPLE TYPE ..... DATE SAMPLED JUNE 69

FIELD SAMPLE No. #45 LAB SAMPLE No. 2879

D. P. W. WHITEHORSE - SOILS LAB

J. M.

26-3-71

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

SHEET OF

SIEVE ANALYSIS

FINER BY WEIGHT	SAMPLE NUMBER			
	%			%
1½"	93.7		# 4	79.7
1 "	↓		# 10	77.6
¾ "	90.0		# 20	74.9
½ "	85.2		# 40	72.1
⅜ "	82.5		# 100	67.0
			# 200	62.9

+ 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			25.2	21.1	4.1							
		A-4										
		M.L.										
		SANDY SILT WITH SLIGHT PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .05 .074 2.00 101.60

PERCENT PASSING

100 90 80 70 60 50 40 30 20 10 0

0 10 20 30 40 50 60 70 80 90 100

200 100 80 50 40 20 10 8 4 ⅜" ½" ¾" 1" 1½" 2" 4"

U.S. SIEVE SIZES

CLAY | SILT | SAND | GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2915

HOLE No. DEPTH 5' to 12'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 46 LAB SAMPLE No. 2880

D. P. W. WHITEHORSE - SOILS LAB

G. M.

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

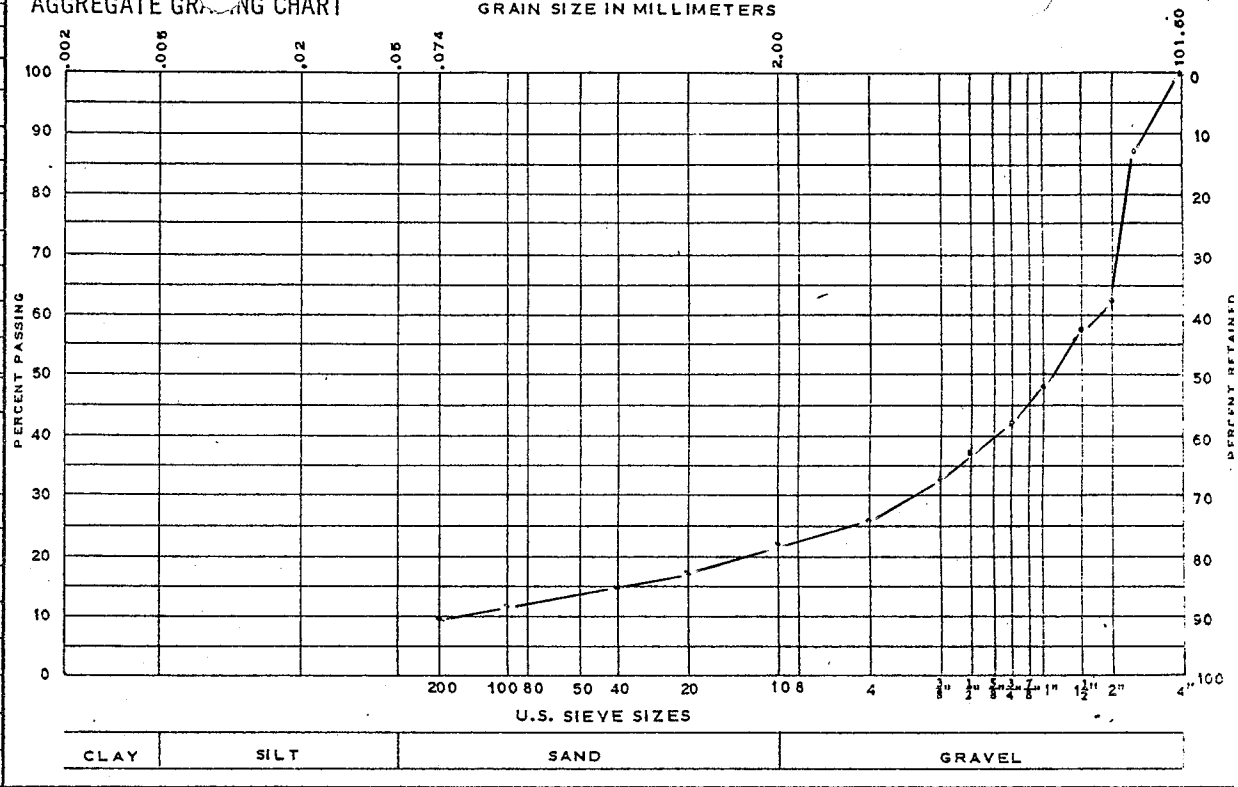
SHEET 07

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
			25.5	#4					
100.0	4"		21.7	#10					
86.5	3		17.7	20					
62.5	2		14.9	40					
57.6	1 1/2		11.4	100					
47.9	1		9.8	200					
41.7	3/4								
37.3	1/2								
33.3	3/8								
	#4	WITH FINES							
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.P.										
		POOR to FAIR GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION

HOLE No. DEPTH

SAMPLE TYPE DATE SAMPLED JUNE '69

FIELD SAMPLE No. LAB SAMPLE No. Z881 & 82

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

Z881 - 2'-10' - STA. 2905 - 47

Z882 - 3'-10' - " 2900 - 48

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

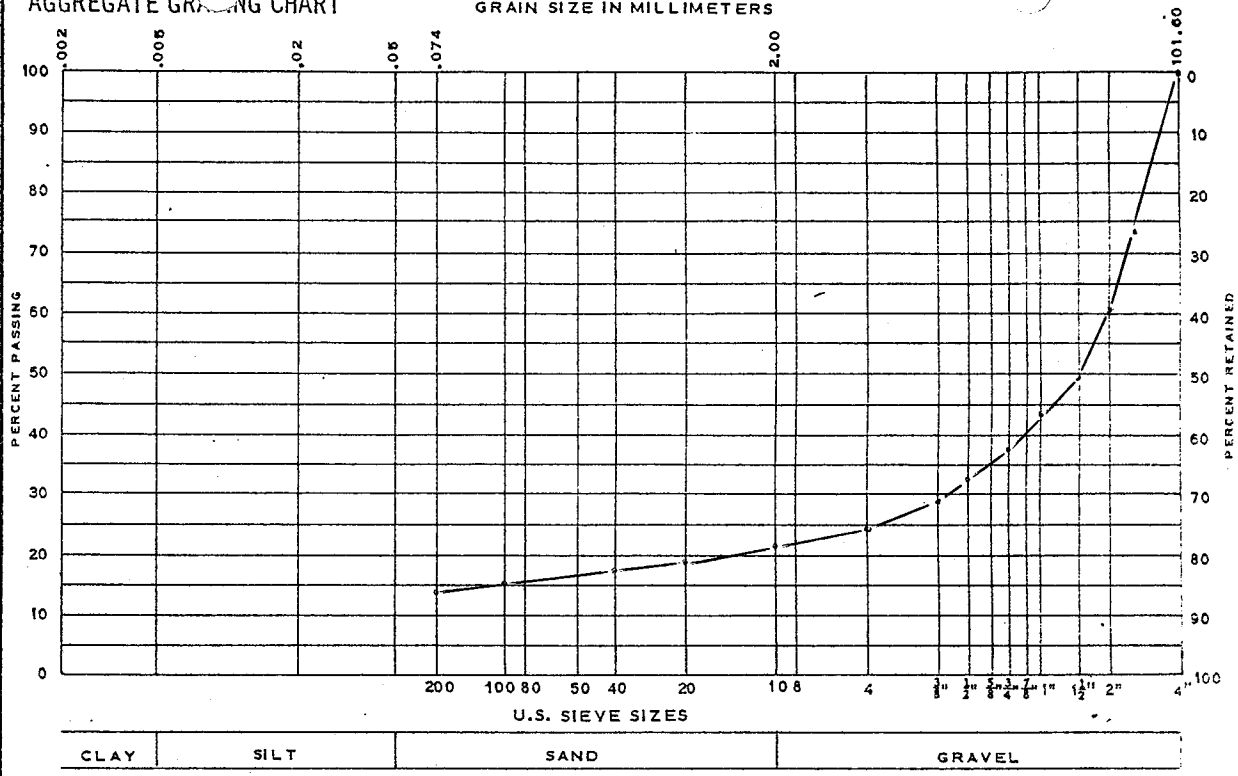
SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	4"		21.3	#10					
73.6	3		19.0	20					
60.3	2		17.3	40					
49.7	1 1/2		15.2	100					
43.8	1		14.1	200					
37.2	3/4								
32.5	1/2								
29.1	3/8								
24.5	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.W.										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY.

LOCATION

HOLE No. DEPTH

SAMPLE TYPE DATE SAMPLED JUNE '69

FIELD SAMPLE No. LAB SAMPLE No. 2883 ~~886~~

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

2883 - 4'-10' - STA. 2895 SAMPLE # 49

~~2886 - 8'-10' " 2885 " # 52.~~

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

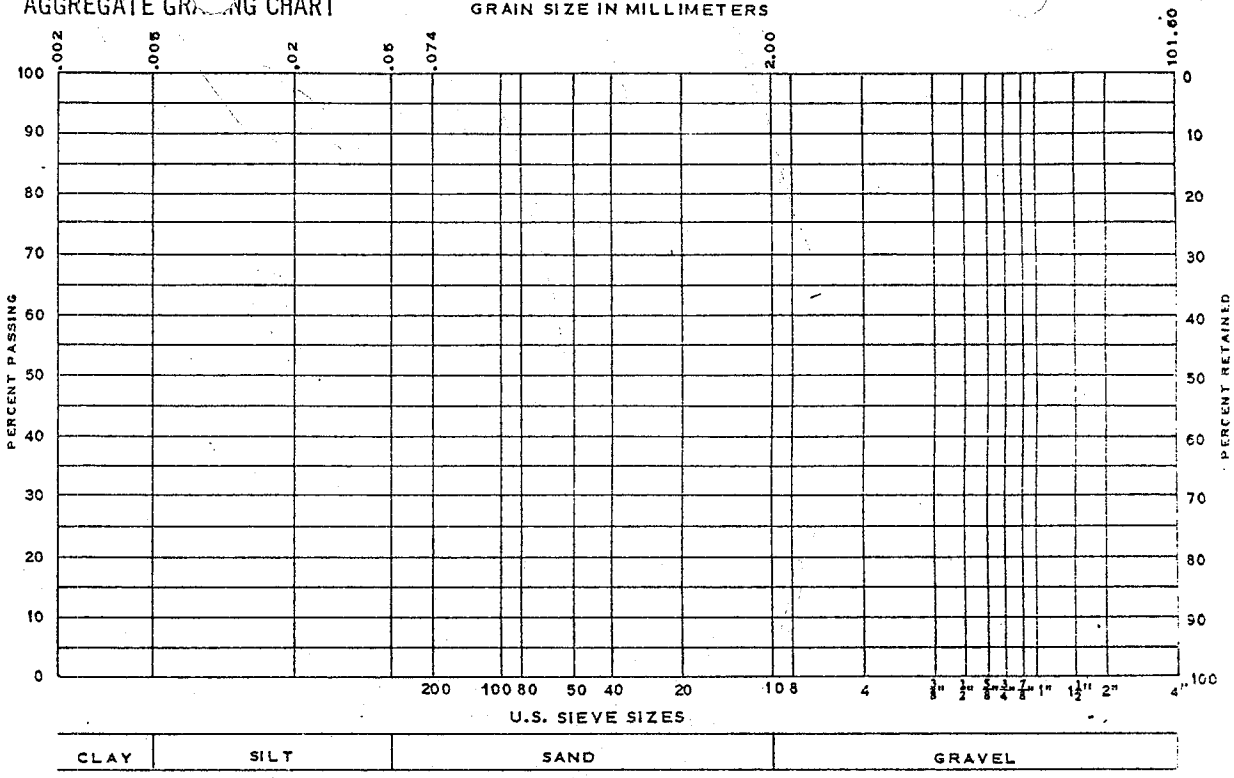
SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	93.6% PASSING #200 SIEVE								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			24.2		22.3			1.9				
		A-4										
		SILT WITH VERY FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2890

HOLE No. DEPTH 4½ to 10'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 50 LAB SAMPLE No. 2884

D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

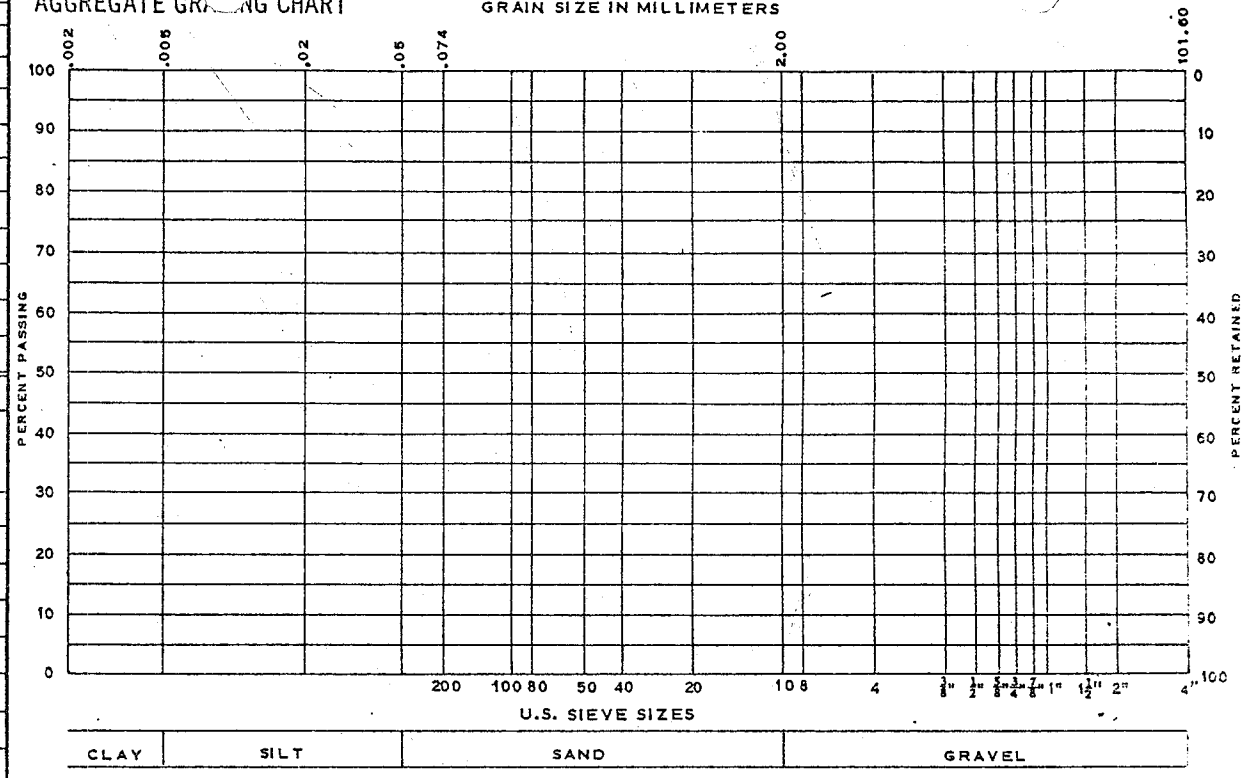
SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	91.5 % PASSING # 200 SIEVE								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			23.1	20.3	2.8							
		A-4										
		M.L.										
		SILT WITH VERY FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2885

HOLE No. DEPTH 4' to 8'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 51 LAB SAMPLE No. 2885

D. P. W. WHITEHORSE - SOILS LAB

G. M.

TESTING ENGINEER

26-3-71

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

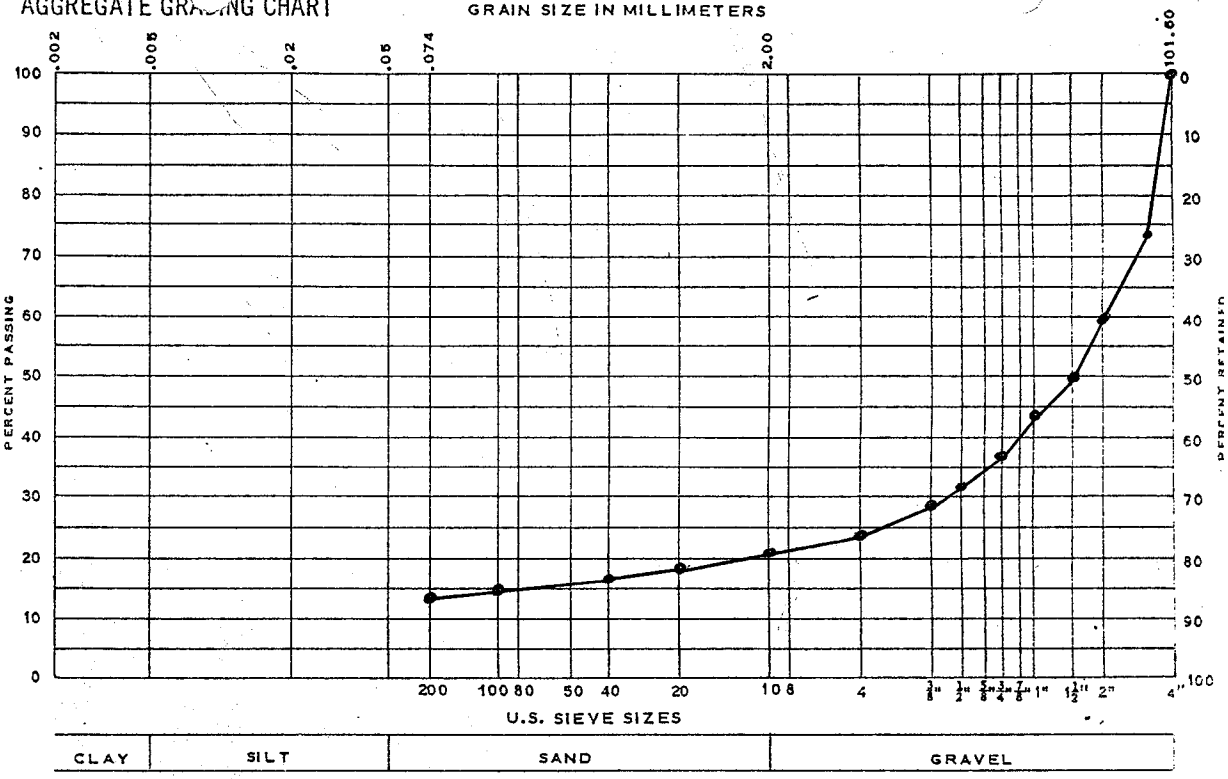
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER %			%
4"	100		# 4	24.5
3"	78.6		# 10	21.3
2"	60.3		# 20	19.0
1½"	49.7		# 40	17.3
1 "	43.8		# 100	15.2
¾"	37.2		# 200	14.1
½"	32.5			
⅜"	29.1			
% + 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.W.										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA 2885

HOLE No. DEPTH 8' to 10'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 5-2 LAB SAMPLE No. 2886

D. P. W. WHITEHORSE - SOILS LAB

J. M.

26-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

SIEVE ANALYSIS

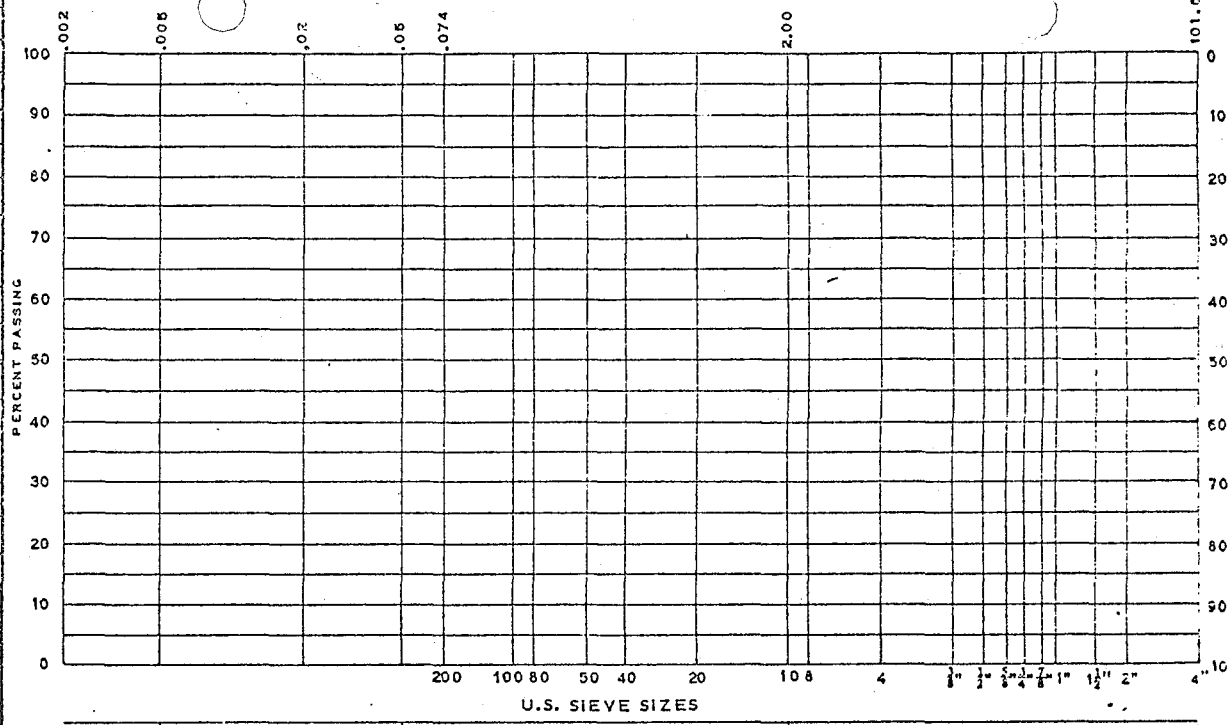
SAMPLE NUMBER

% FINER BY WEIGHT													
		78.1 % PASSING #200 SIEVE											
% + 4"													

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
					0.0							
		A-4										
		M.L.										
		SILT - FINE SAND MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2880

HOLE No. DEPTH 4' to 9'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 53 LAB SAMPLE No. 2887

D. P. W. WHITEHORSE - SOILS LAB J. M.

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

D 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

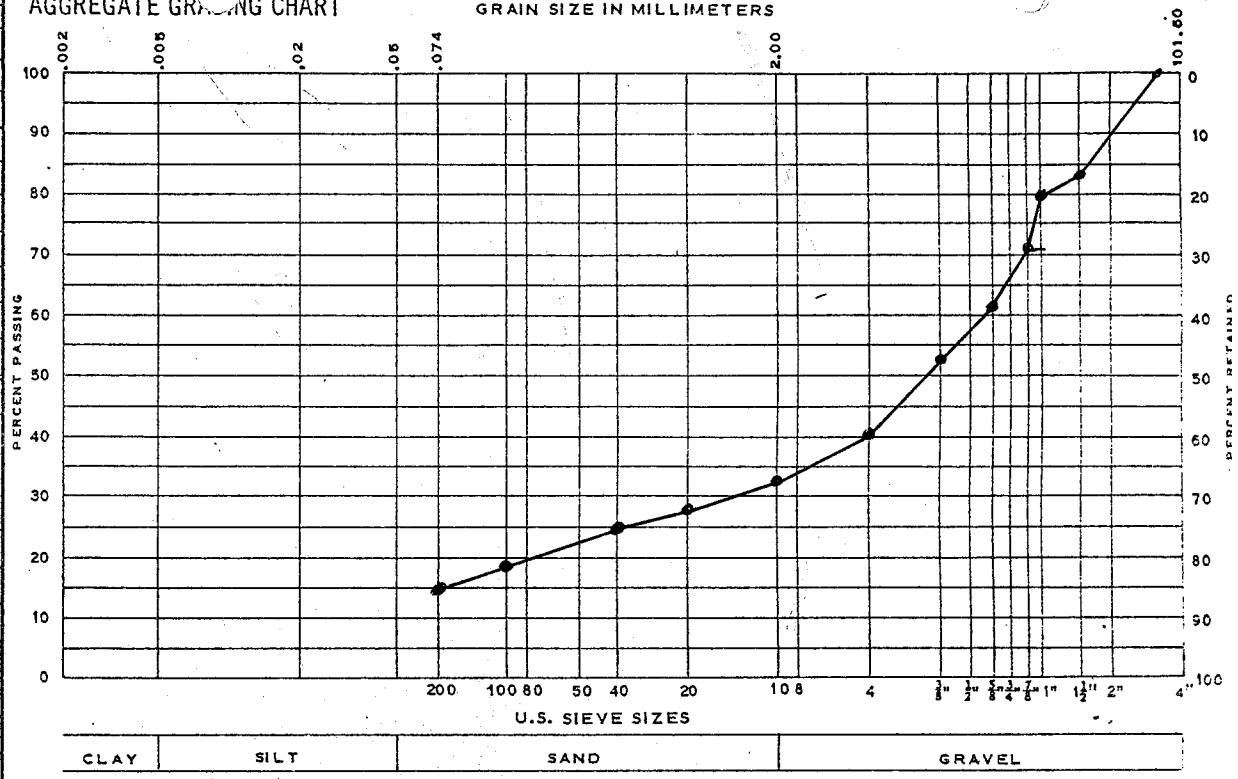
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER									
	%			%						
3"	100		# 4	40.5						
1½"	83.5		# 10	33.7						
1 "	80.6		# 20	28.3						
¾ "	71.4		# 40	24.7						
½ "	61.1		# 100	19.2						
⅜ "	53.6		# 200	15.2						
% + 4"										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			18.9	17.6			1.3					
		A-1-b										
		G.W.										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA 2875

HOLE No. DEPTH 5' to 10'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 54 LAB SAMPLE No. 2888

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER 29-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

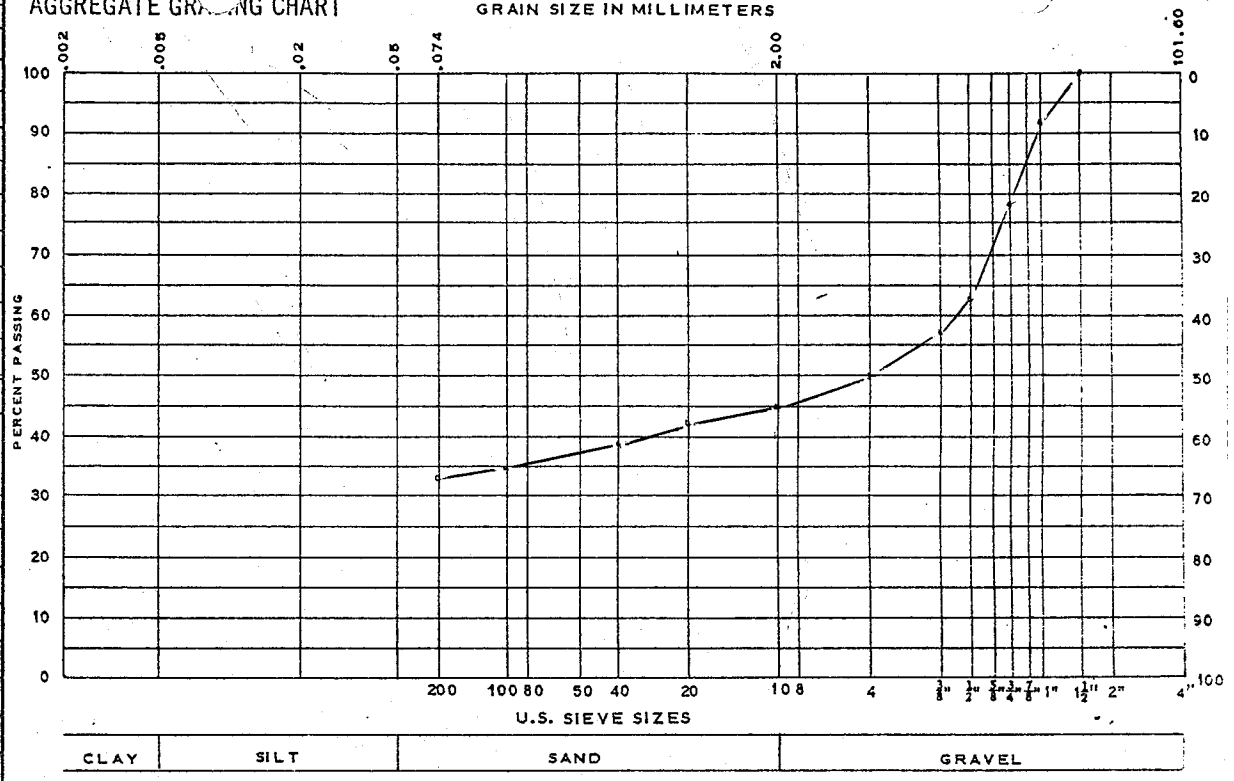
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	1 1/2"		56.8	3/8"					
92.0	1		49.8	#4					
78.5	3/4		45.2	10					
63.0	1/2		42.1	20					
			39.1	40					
			34.8	100					
			33.3	200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.7	20.7		2.0						
		A-2-4										
		S.M.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA. 2870

HOLE No. ..... DEPTH 4'-10'

SAMPLE TYPE ..... DATE SAMPLED JUNE '69

FIELD SAMPLE No. 55 ..... LAB SAMPLE No. 2889

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

SHEET OF

SIEVE ANALYSIS

% FINER BY WEIGHT	SAMPLE NUMBER	%	SAMPLE NUMBER	%
1"	100		# 4	83.6
3/4"	95.2		# 10	76.8
1/2"	92.0		# 20	70.7
3/8"	87.6		# 40	66.7
			# 100	60.8
			# 200	55.8
% + 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.9	18.9	4.0							
		A-4										
		M.L.										
		SILT - SAND MIXTURE WITH SLIGHT PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .05 .074 2.00 101.60

PERCENT PASSING

100 90 80 70 60 50 40 30 20 10 0

200 100 80 50 40 20 10 8 4 3/8" 1/2" 5/8" 3/4" 7/8" 1" 1 1/2" 2" 4"

U.S. SIEVE SIZES

CLAY | SILT | SAND | GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2865'

HOLE No. DEPTH 5' to 7'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 56 LAB SAMPLE No. 2890

D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

D 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

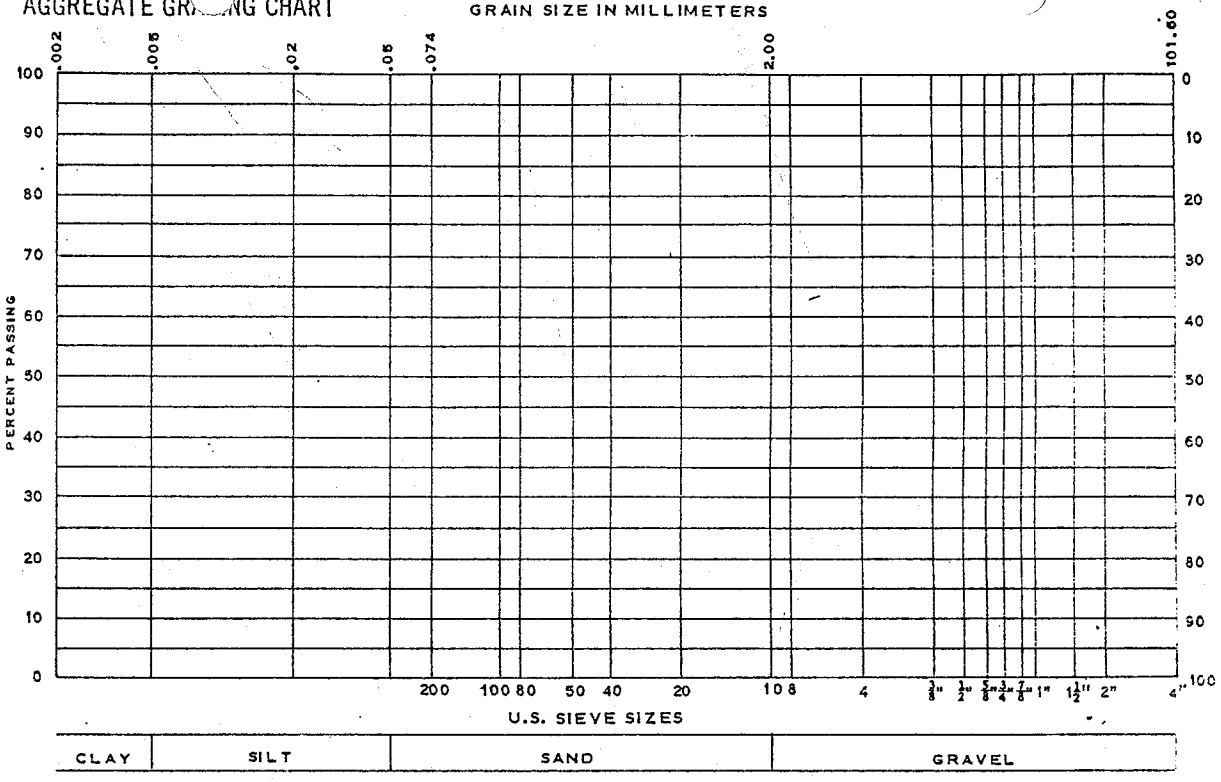
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
	93.6% PASSING #200 SIEVE							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			24.2		22.3			1.9				
		A-4										
		SILT WITH VERY FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2865

HOLE No. DEPTH 7' to 10'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 57 LAB SAMPLE No. 2891

D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

SHEET OF

SIEVE ANALYSIS

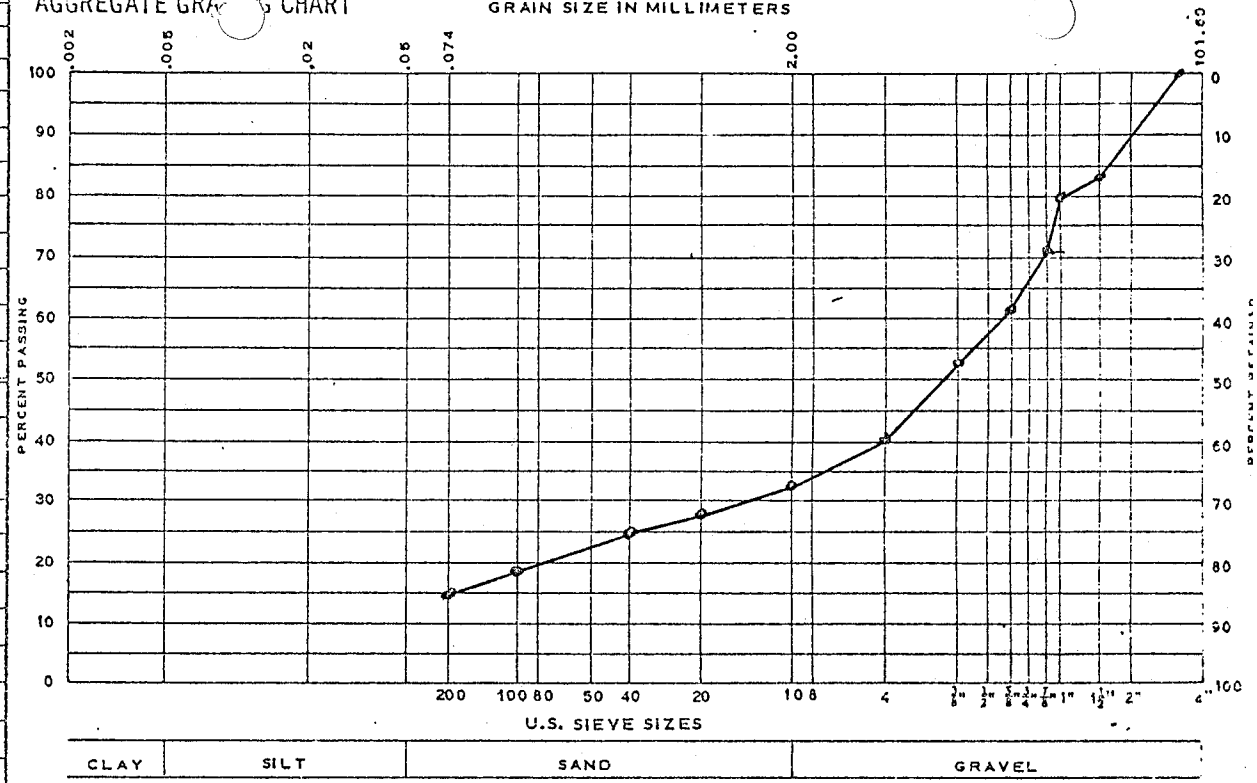
SAMPLE NUMBER

FINER BY WEIGHT	%			%
3"	100		# 4	40.5
1½"	83.5		# 10	33.7
1"	80.6		# 20	28.3
¾"	71.4		# 40	24.7
½"	61.1		# 100	19.2
⅜"	53.6		# 200	15.2
+ 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			18.9	17.6			1.3					
		A-1-b										
		G.W.										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA 2860

HOLE No. DEPTH 4' to 10'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 58 LAB SAMPLE No. 2892

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER 29-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

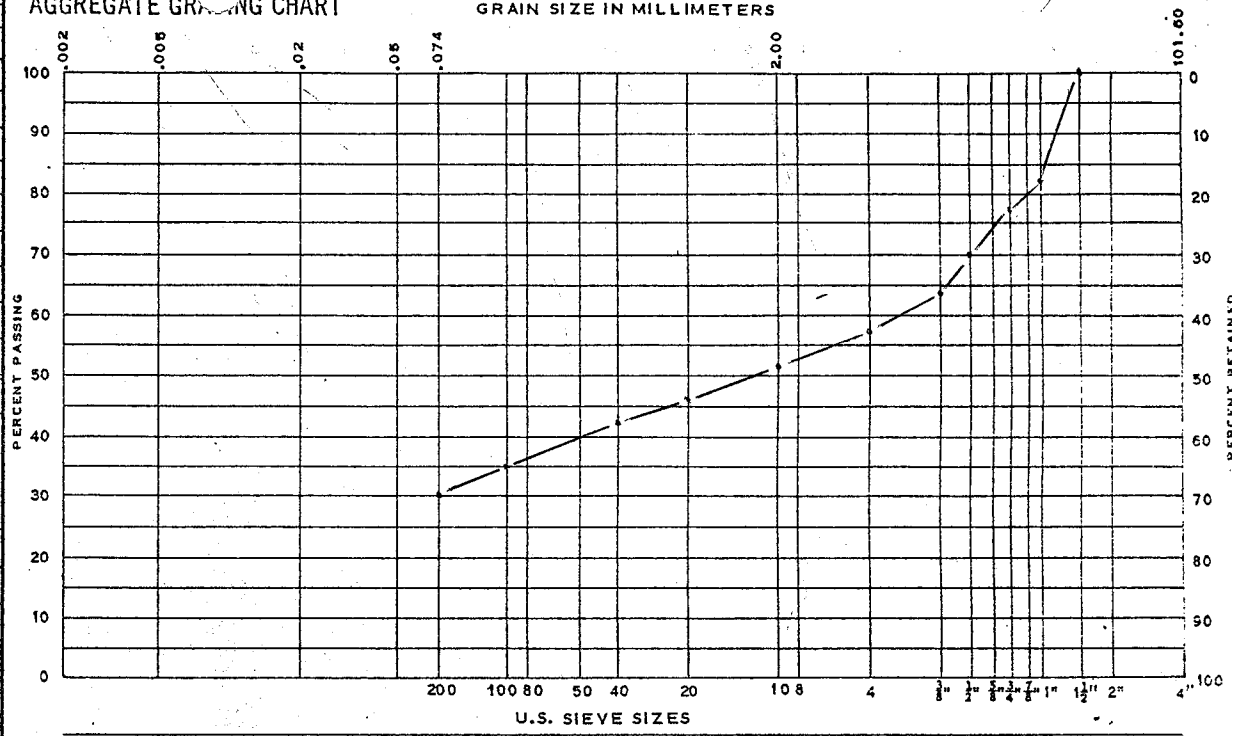
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	1½"		64.3	3/8"					
81.8	1		57.7	#4					
76.9	¾		51.2	10					
69.7	½		45.7	20					
			41.8	40					
			35.0	100					
			30.4	200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.7	20.7	2.0							
		A-2-4										
		S.M.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA. 2855

HOLE No. ..... DEPTH 3'-10'

SAMPLE TYPE ..... DATE SAMPLED JUNE '69

FIELD SAMPLE No. 59 ..... LAB SAMPLE No. 2873

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT — SIEVE ANALYSIS

SAMPLE NUMBER

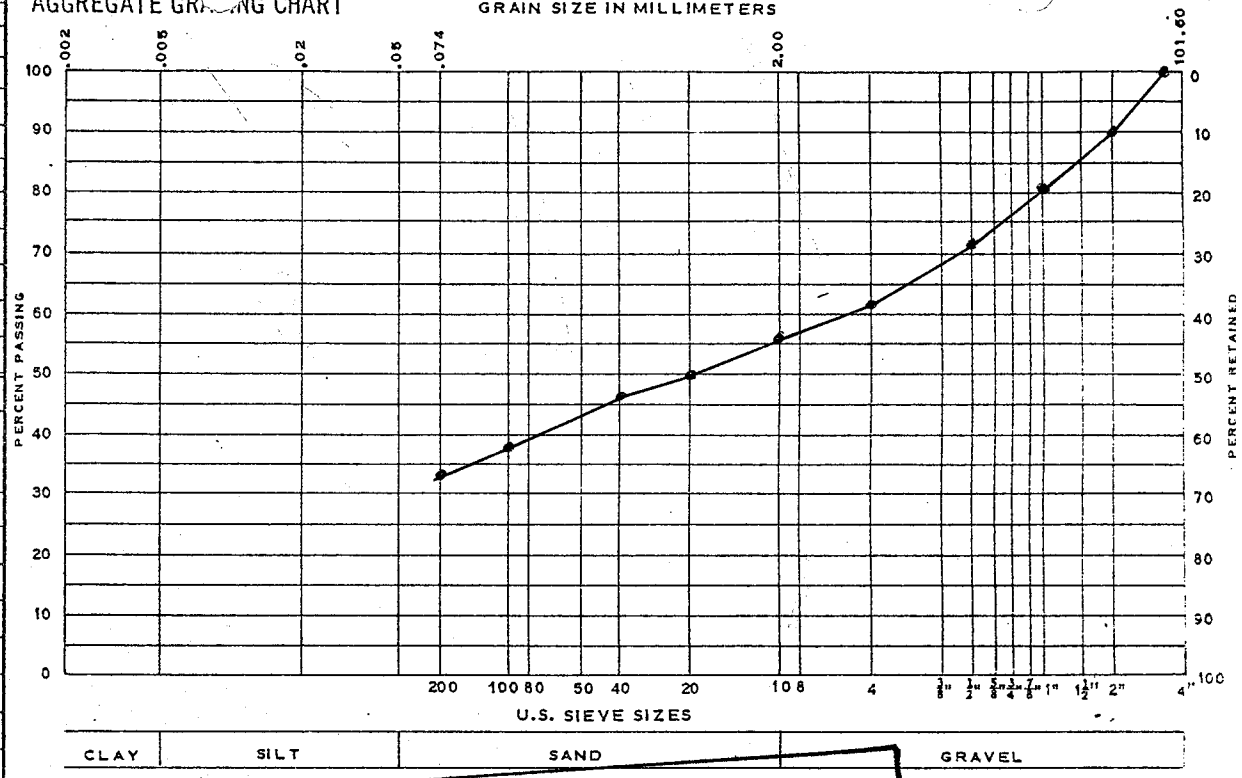
	%			%
3"	100		#4	61.5
2"	90.2		#10	55.7
1½"	86.9		#20	50.1
1"	81.3		#40	46.0
¾"	77.1		#100	38.4
½"	72.0		#200	33.0
⅜"	68.8			

% + 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.7	17.0		4.7						
		A-2-4										
		S.M.-S.C.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION DEMPSTER HIGHWAY DEPTH 3' + 0 10'

HOLE No. DEPTH

SAMPLE TYPE STA. 2850 DATE SAMPLED JUNE 69

FIELD SAMPLE No. 60 LAB SAMPLE No. 2894

D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER — DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER — DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

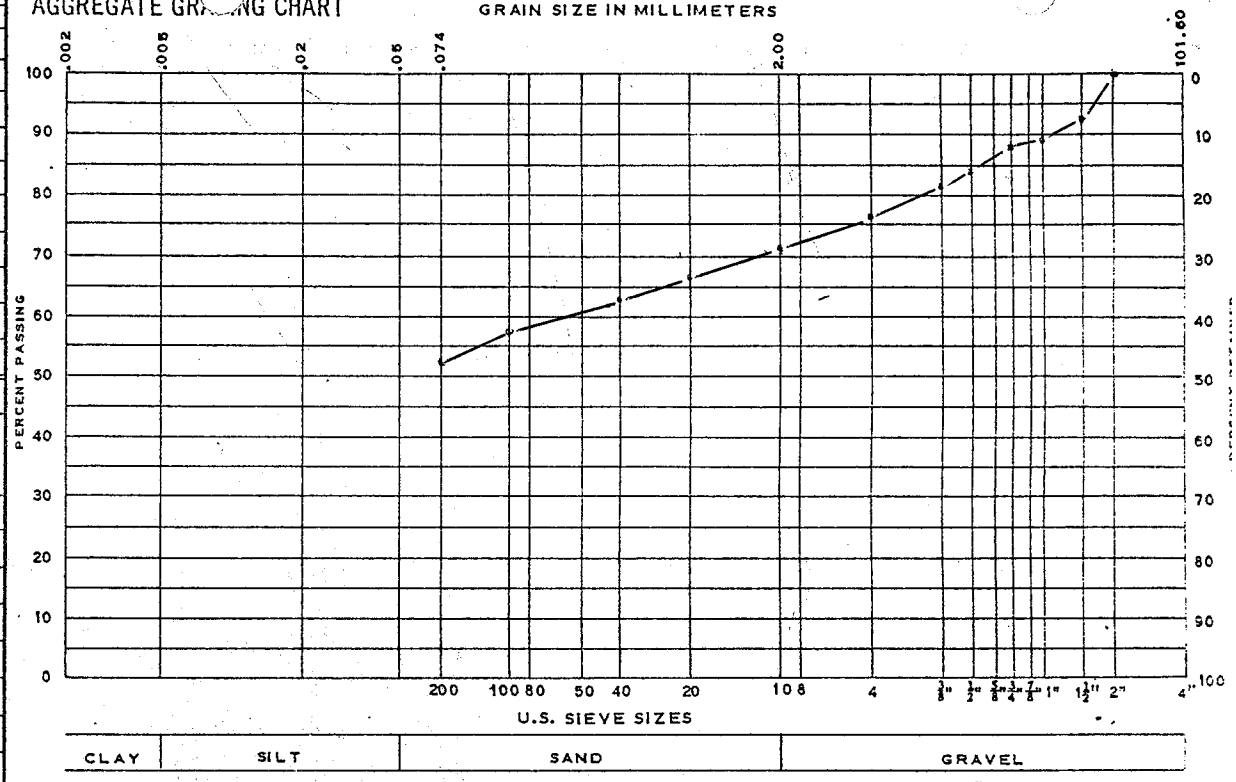
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	2"		71.5	#10					
92.5	1 1/2		66.6	20					
89.2	1		62.9	40					
88.0	3/4		56.6	100					
84.3	1/2		52.0	200					
81.4	3/8								
76.5	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.9	18.9	4.0							
		A-4										
		M.L.										
		GRAVELL SAND - SILT MIXTURE WITH SLIGHT PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA. 2845

HOLE No. ..... DEPTH 4'-10'

SAMPLE TYPE ..... DATE SAMPLED JUNE '69

FIELD SAMPLE No. 61 ..... LAB SAMPLE No. 2895

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

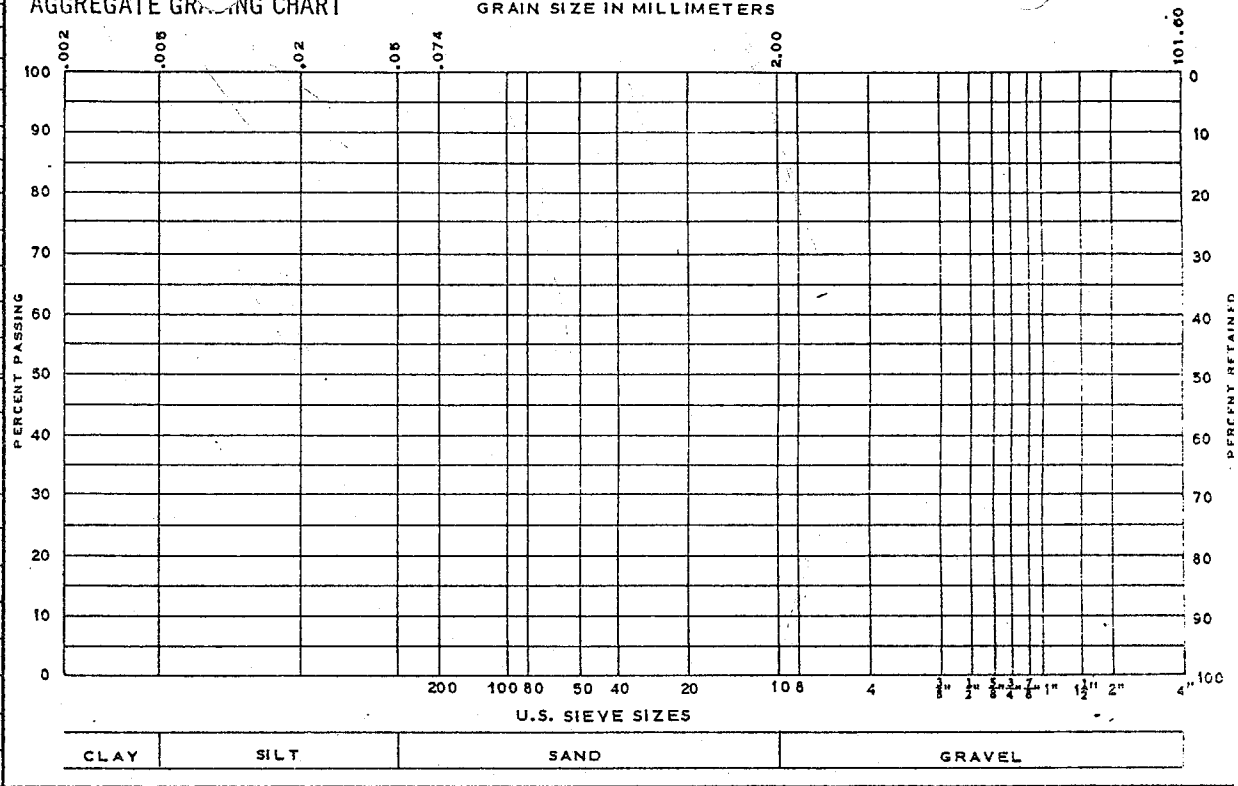
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
	80.8 % PASSING # 200 SIEVE							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			35.7	30.1			5.6					
		A-4										
		M.L.										
		SANDY SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2840

HOLE No. ..... DEPTH 6' to 10'

SAMPLE TYPE ..... DATE SAMPLED JUNE 69

FIELD SAMPLE No. 62 LAB SAMPLE No. 2896

D. P. W. WHITEHORSE - SOILS LAB

J. M.

TESTING ENGINEER

26-3-71

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

SHEET OF

SIEVE ANALYSIS

SAMPLE NUMBER

FINER BY WEIGHT	%			%
1"	100		# 4	83.6
3/4"	95.2		# 10	76.8
1/2"	92.0		# 20	70.7
3/8"	87.6		# 40	66.7
			# 100	60.8
			# 200	55.8

+ 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.9	18.9	4.0							
		A-4										
		M.L.										
		SILT - SAND MIXTURE WITH SLIGHT PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .05 .074 2.00 101.60

PERCENT PASSING

100 90 80 70 60 50 40 30 20 10 0

0 10 20 30 40 50 60 70 80 90 100

200 100 80 50 40 20 10 8 4 3/8" 1/2" 3/4" 1" 1 1/2" 2" 4"

U.S. SIEVE SIZES

CLAY	SILT	SAND	GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2835'

HOLE No. DEPTH 6' to 8'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 63 LAB SAMPLE No. 2897

D. P. W. WHITEHORSE - SOILS LAB J. M.

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

SIEVE ANALYSIS

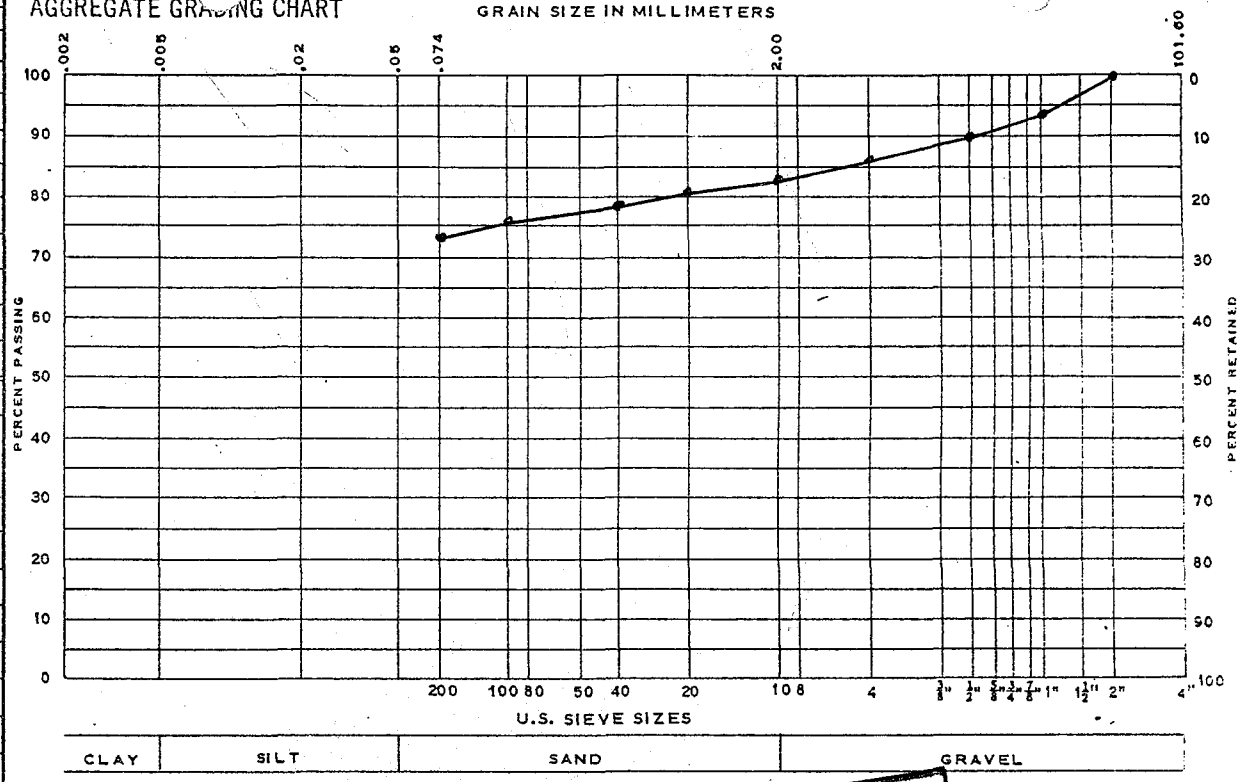
% FINER BY WEIGHT	SAMPLE NUMBER		SAMPLE NUMBER	
	%			%
2 "	100		# 4	86.0
1 "	94.3		# 10	83.5
3/4 "	92.1		# 20	81.1
1/2 "	90.0		# 40	79.4
3/8 "	87.9		# 100	76.5
			# 200	74.1

% + 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			30.1	27.4	2.7							
		A-4										
		M.L.										
		SILT OF SLIGHT PLASTICITY										
		WITH SAND-GRAVEL MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY
LOCATION STA. 2835 DEPTH 8' to 10'
HOLE No. DATE SAMPLED
SAMPLE TYPE
FIELD SAMPLE No. 64 LAB SAMPLE No. 2898
D. P. W. WHITEHORSE - SOILS LAB J.M.
29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

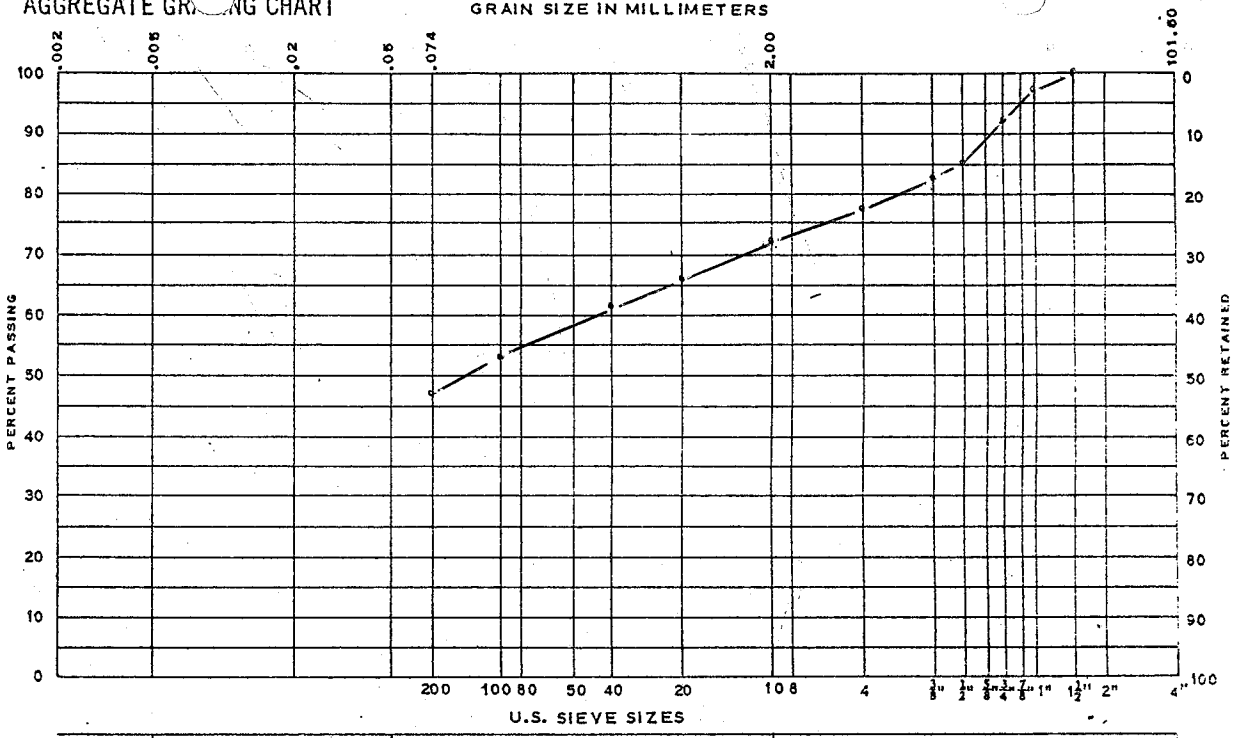
SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	1 1/2"		71.5	#10					
96.5	1		65.7	20					
92.3	3/4		61.2	40					
85.4	1/2		52.9	100					
83.2	3/8		47.1	200					
76.9	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.2	18.0		3.2						
		A-4										
		S.M.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT

LOCATION DEMPSTER HIGHWAY DEPTH 3' to 6'

HOLE No. DATE SAMPLED JUNE '69

SAMPLE TYPE

FIELD SAMPLE No. 65 LAB SAMPLE No. 2899

D. P. W. WHITEHORSE - SOILS LAB #1

TESTING ENGINEER 25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

2899 - 3'-6' STA. 2830 SAMPLE #65

~~1 - 6'-14' " 2360 " #167~~

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

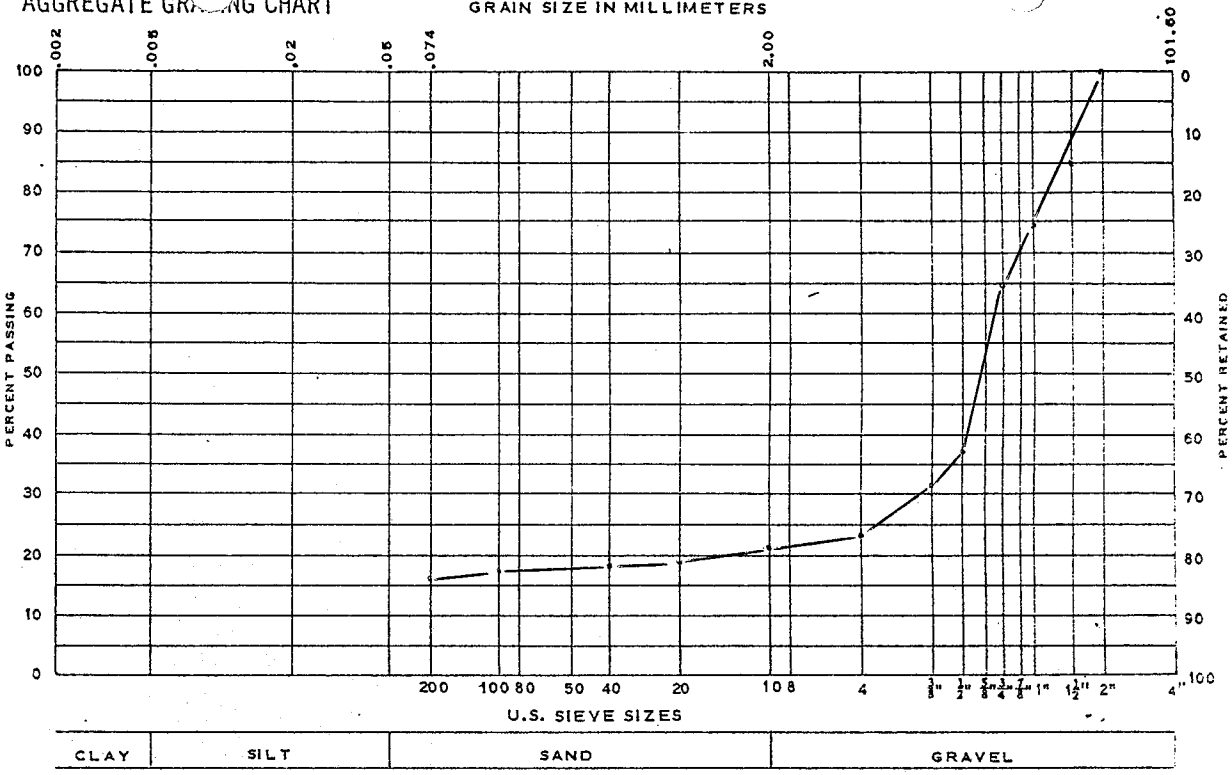
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	2"		31.1	3/8"					
85.3	1 1/2		23.6	#4					
74.5	1		20.9	10					
64.8	3/4		19.4	20					
36.6	1/2		18.4	40					
			17.2	100					
			15.8	200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b G.P.			0.0							
		POOR to FAIR GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY.

LOCATION STA. 2825

HOLE No. ..... DEPTH 4'-10'

SAMPLE TYPE ..... DATE SAMPLED JUNE '69

FIELD SAMPLE No. 66 ..... LAB SAMPLE No. 2900

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

SHEET OF

FINER BY EIGHT	SIEVE ANALYSIS SAMPLE NUMBER			
	%			%
3 "	100		# 4	21.0
2 "	88.5		# 10	15.0
1 1/2"	83.1		# 20	10.5
1 "	60.6		# 40	7.5
3/4 "	49.0		# 100	4.7
1/2 "	37.5		# 200	3.7
3/8"	31.0			
% + 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.P.										
		POOR TO FAIR GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .05 .074 2.00 101.60

PERCENT PASSING

100 90 80 70 60 50 40 30 20 10 0

0 10 20 30 40 50 60 70 80 90 100

200 100 80 50 40 20 10 8 4 3/8" 1/2" 3/4" 1" 1 1/2" 2" 4"

U.S. SIEVE SIZES

CLAY | SILT | SAND | GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2820

HOLE No. ..... DEPTH 8' to 12'

SAMPLE TYPE ..... DATE SAMPLED JUNE 69

FIELD SAMPLE No. 67 LAB SAMPLE No. 2901

D. P. W. WHITEHORSE - SOILS LAB J. M.

29-3-71

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	1"		82.7	#10					
98.5	3/4		76.9	20					
94.3	1/2		72.7	40					
91.6	3/8		64.8	100					
87.9	#4		57.4	200					

% + 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	OSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.9	18.9	4.0							
		A-4										
		M.L.										
		SAND - SILT MIXTURE WITH SLIGHT PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .05 .074 2.00 101.60

PERCENT PASSING: 100 90 80 70 60 50 40 30 20 10 0

PERCENT RETAINED: 0 10 20 30 40 50 60 70 80 90 100

200 100 80 50 40 20 10 8 4 3/8" 1/2" 5/8" 3/4" 7/8" 1" 1 1/2" 2" 4"

U.S. SIEVE SIZES

CLAY | SILT | SAND | GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA. 2815

HOLE No. ..... DEPTH 2'-5"

SAMPLE TYPE ..... DATE SAMPLED JUNE '69

FIELD SAMPLE No. 68 LAB SAMPLE No. 2902 ~~2970~~

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER 25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

2902 - 2'-5' STA. 2815 SAMPLE #68

~~2970 - 4'-10'~~ " ~~2535~~ " #136

MATERIALS ENGINEER DATE

SHEET OF

SIEVE ANALYSIS

SAMPLE NUMBER

FINER BY WEIGHT	%			%
3 "	100		# 4	21.0
2 "	88.5		# 10	15.0
1 1/2 "	83.1		# 20	10.5
1 "	60.6		# 40	7.5
3/4 "	49.0		# 100	4.7
1/2 "	37.5		# 200	3.7
3/8 "	31.0			
% + 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.P.										
		POOR TO FAIR GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .06 .074 2.00 101.60

PERCENT PASSING

100 90 80 70 60 50 40 30 20 10 0

0 10 20 30 40 50 60 70 80 90 100

200 100 80 50 40 20 10 8 4 3/8" 1/2" 5/8" 3/4" 7/8" 1" 1 1/2" 2" 4"

U.S. SIEVE SIZES

CLAY | SILT | SAND | GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2815

HOLE No. DEPTH 5' to 10'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 69 LAB SAMPLE No. 2903

D. P. W. WHITEHORSE - SOILS LAB J. ml.

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

D 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

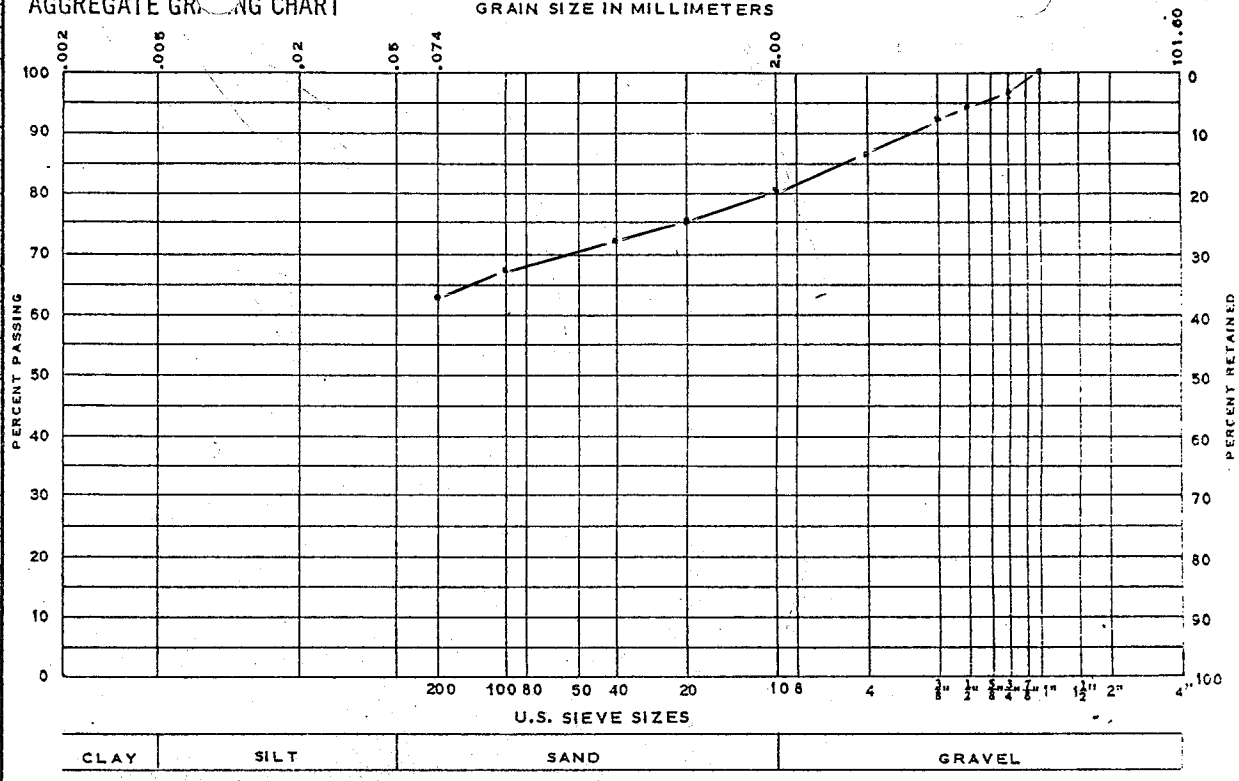
SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	1"		80.3	#10					
96.5	3/4		75.1	20					
94.8	1/2		71.7	40					
92.1	3/8		67.5	100					
86.1	#4		63.2	200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			25.2	21.1	4.1							
		A-4										
		M.L.										
		SANDY SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA. 2810

HOLE No. ..... DEPTH 11-10'

SAMPLE TYPE ..... DATE SAMPLED JUNE 69

FIELD SAMPLE No. 70 LAB SAMPLE No. 2804

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

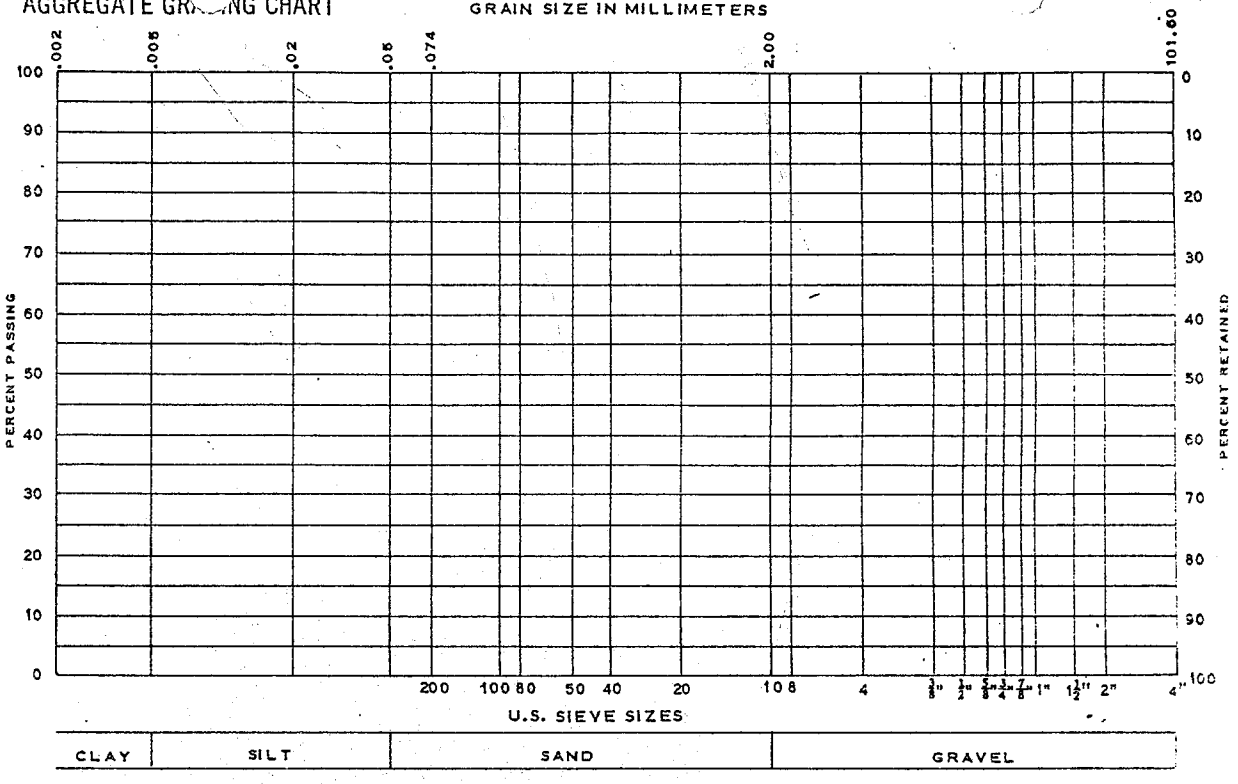
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS / SAMPLE NUMBER								
	94.3 % PASSING #200 SIEVE								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			24.5	23.2	1.3							
		A-4										
		M.L.										
		SILT WITH VERY FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2805'

HOLE No. DEPTH 1½' to 4'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 71 LAB SAMPLE No. 2905

D. P. W. WHITEHORSE - SOILS LAB

26-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

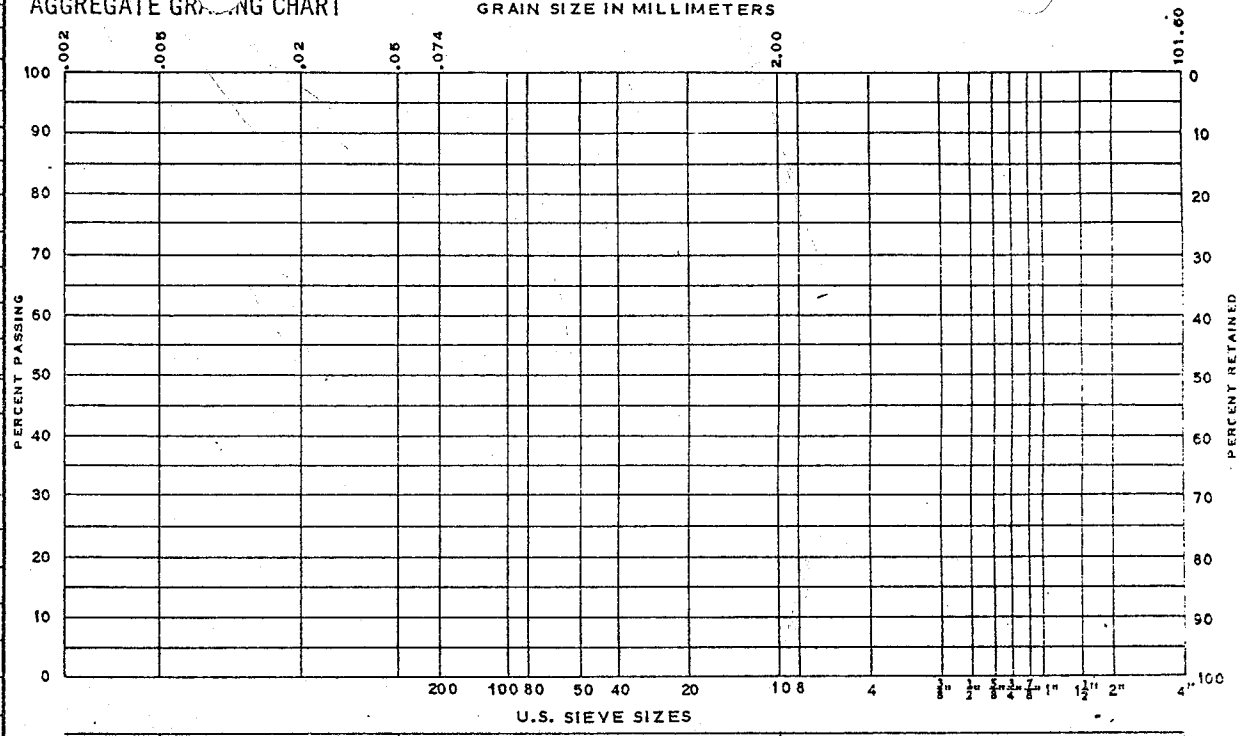
SHEET ___ OF ___

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	91.6% PASSING #200 SIEVE								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			36.6	31.2	5.4							
		A-4										
		M.L.										
		SILT WITH VERY FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2805' DEPTH 4' + 0 10'

HOLE No. DATE SAMPLED JUNE 69

SAMPLE TYPE LAB SAMPLE No. 2906

FIELD SAMPLE No. 72

D. P. W. WHITEHORSE - SOILS LAB

J. M.

26-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

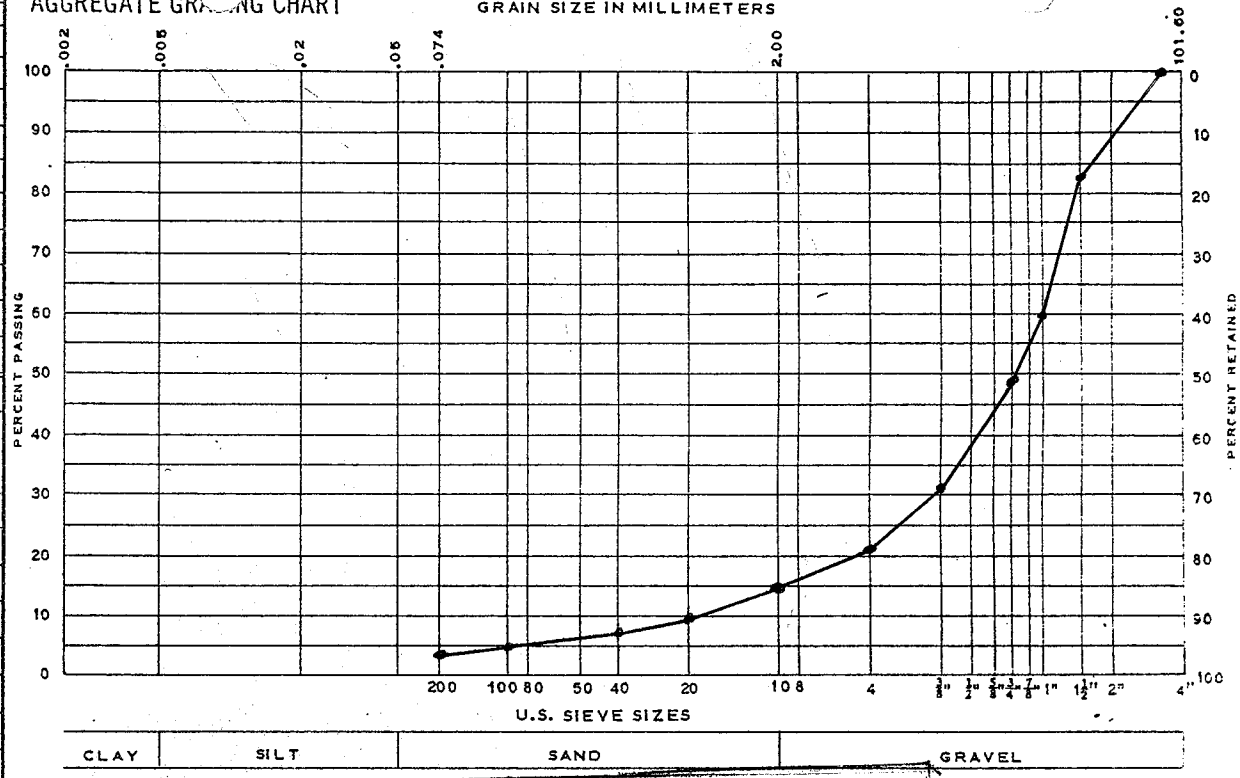
% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER			
	%			%
3 "	100		# 4	21.0
2 "	88.5		# 10	15.0
1½"	83.1		# 20	10.5
1 "	60.6		# 40	7.5
¾ "	49.0		# 100	4.7
½ "	37.5		# 200	3.7
⅜"	31.0			

% + 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.P.										
	POOR	to FAIR GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2800

HOLE No. ..... DEPTH 1' to 15'

SAMPLE TYPE ..... DATE SAMPLED JUNE 69

FIELD SAMPLE No. 73 LAB SAMPLE No. 2907

D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

SHEET OF

SIEVE ANALYSIS

SAMPLE NUMBER

FINER BY WEIGHT	%
5"	100
3"	73.2
2"	63.6
1½"	55.4
1"	46.2
¾"	37.4
½"	27.3
⅜"	22.4
+ 4"	
#4	16.4
#10	13.4
#20	11.1
#40	9.4
#100	7.2
#200	6.0

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.P.										
		POOR to FAIR GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .06 .074 2.00 101.50

PERCENT PASSING

100 90 80 70 60 50 40 30 20 10 0

0 10 20 30 40 50 60 70 80 90 100

200 100 80 50 40 20 10 8 4 ⅜" ½" ⅝" ¾" 1" 1½" 2" 4"

U.S. SIEVE SIZES

CLAY | SILT | SAND | GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT

LOCATION DEMPSTER HIGHWAY

HOLE No. DEPTH 4' to 10'

SAMPLE TYPE STA. 2795 DATE SAMPLED JUNE 69

FIELD SAMPLE No. 74 LAB SAMPLE No. 2908

D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

673 A

SHEET OF

SIEVE ANALYSIS

SAMPLE NUMBER

FINER BY EIGHT	%		%
1½"	93.7	# 4	79.7
1 "	↓	# 10	77.6
¾ "	90.0	# 20	74.9
½ "	85.2	# 40	72.1
⅜ "	82.5	# 100	67.0
		# 200	62.9
+ 4"			

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			25.2	21.1	4.1							
		A-4										
		M.L.										
		SANDY SILT WITH SLIGHT PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .05 .074 2.00 101.60

PERCENT PASSING

100 90 80 70 60 50 40 30 20 10 0

200 100 80 50 40 20 10 8 4 ⅜" ½" ¾" 1" 1½" 2" 4"

U.S. SIEVE SIZES

CLAY | SILT | SAND | GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2790

HOLE No. DEPTH 4' to 10'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 75 LAB SAMPLE No. 2909

D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

672 A

AGGREGATE DEPOSIT REPORT (Cont'd)

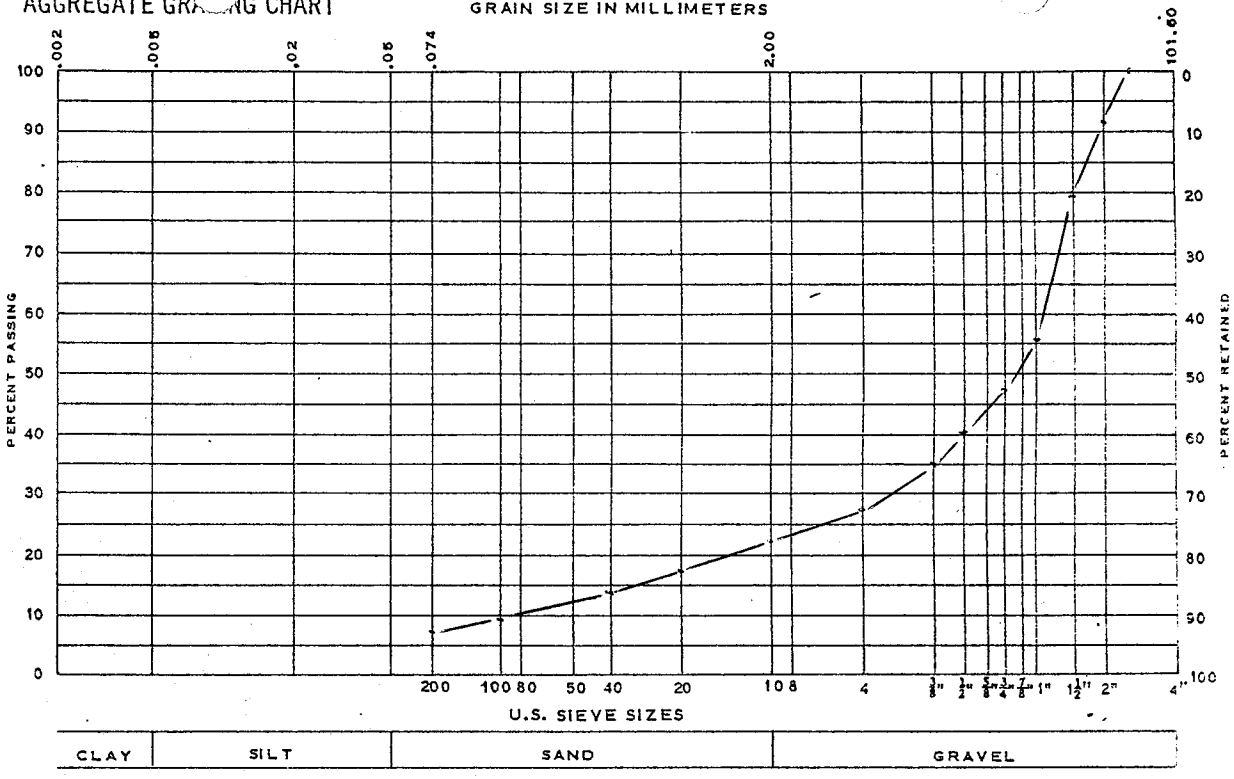
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	3"		29.5	#4					
90.7	2		22.1	10					
79.6	1 1/2		17.6	20					
55.6	1		14.0	40					
47.5	3/4		9.6	100					
40.6	1/2		7.6	200					
35.2	3/8								
	#4	WITH FINES							
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			NP							
		G.W.										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HI-WAY

LOCATION:

HOLE No.: DEPTH:

SAMPLE TYPE: DATE SAMPLED: JUNE '69

FIELD SAMPLE No.: LAB SAMPLE No. ~~2830~~ 2910

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71
DATE

MATERIALS ENGINEER'S REMARKS

~~2830 0'-4' STA 3000+00 SAMPLE #1~~

2910 - 4'-10' STA. 2785 " #76

MATERIALS ENGINEER

DATE

SHEET OF

SIEVE ANALYSIS

SAMPLE NUMBER

FINER BY WEIGHT									
5"	100								
3"	93.2		#4	16.4					
2"	62.6		#10	13.4					
1½"	55.4		#20	11.1					
1"	46.2		#40	9.4					
¾"	37.4		#100	7.2					
½"	27.3		#200	6.0					
⅜"	22.4								
+ 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.P.										
		POOR to FAIR GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .008 .02 .05 .074 2.00 101.60

PERCENT PASSING (100 90 80 70 60 50 40 30 20 10 0)

PERCENT RETAINED (0 10 20 30 40 50 60 70 80 90 100)

200 100 80 50 40 20 10 8 4 ⅜" ½" ⅝" ¾" 1" 1½" 2" 4"

U.S. SIEVE SIZES

CLAY | SILT | SAND | GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT

LOCATION DEMPSTER HIGHWAY

HOLE No. DEPTH 3' to 10'

SAMPLE TYPE STA. 2780 DATE SAMPLED JUNE 69

FIELD SAMPLE No. 77 LAB SAMPLE No. 2911

D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

573 A

AGGREGATE DEPOSIT REPORT (Cont'd)

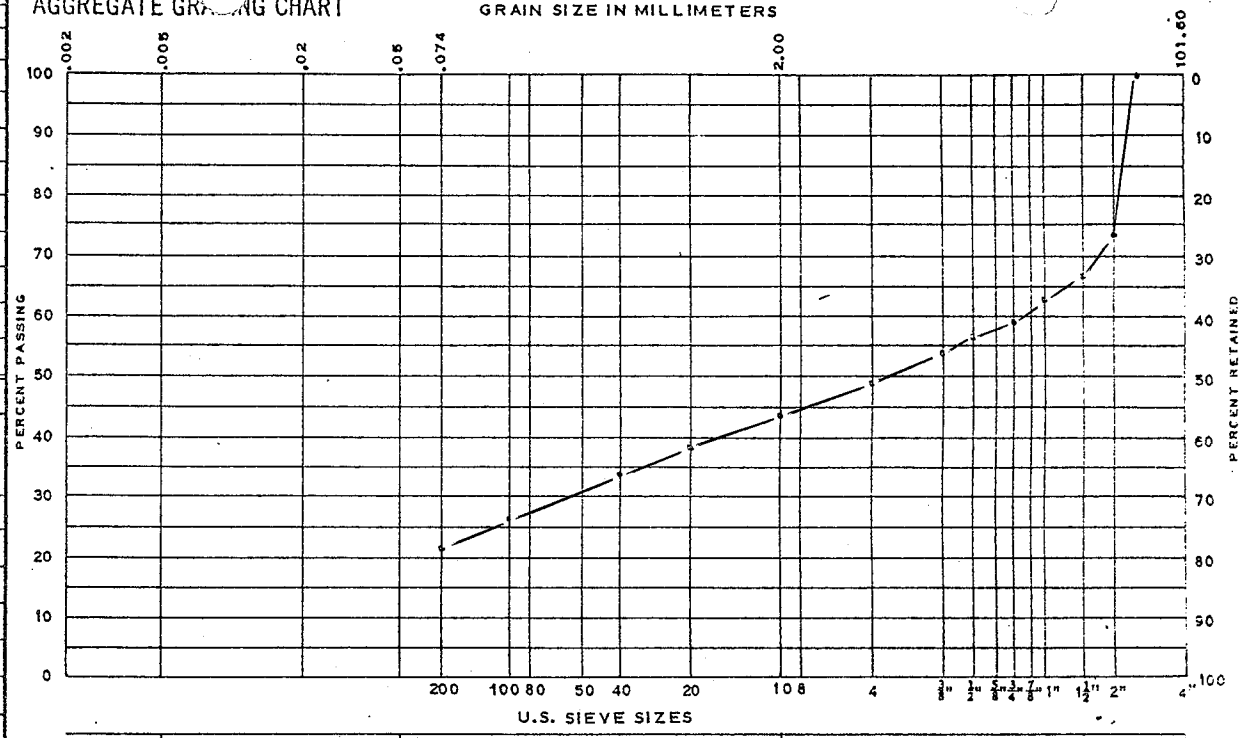
SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	3"		53.9	3/8"					
73.4	2		49.4	#4					
66.2	1 1/2		43.9	10					
63.6	1		38.3	20					
59.3	3/4		33.5	40					
56.1	1/2		26.1	100					
			21.3	200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.8	18.4	3.4							
		A-1-b										
		G.W.										
		FAIR to WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA. 2775'

HOLE No. ..... DEPTH 2' to 10'

SAMPLE TYPE ..... DATE SAMPLED JUNE '69

FIELD SAMPLE No. 78 LAB SAMPLE No. 2912 ~~57~~

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

2912 - 2'-10' STA. 2775 SAMPLE #78

~~2952 - 2'-10' " 2620 " #118~~

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

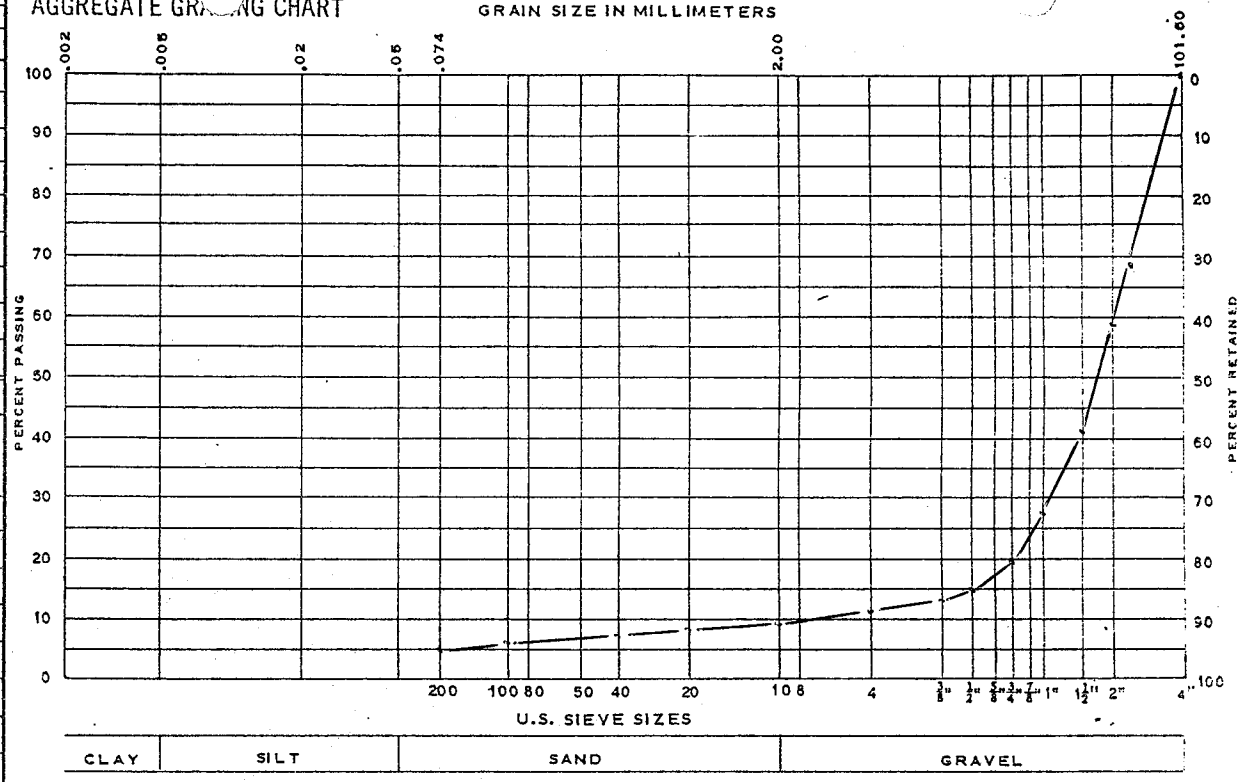
SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	4"		11.2	#4					
68.8	3		9.6	10					
59.4	2		8.3	20					
40.8	1 1/2		7.4	40					
27.2	1		6.0	100					
19.7	3/4		4.9	200					
15.4	1/2								
13.4	3/8								
	#4.	WITH FINES.							
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a G.P. POORLY GRADED GRAVEL-SAND MIXTURE			0.0							

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA. 2770

HOLE No. ..... DEPTH 5' to 10'.

SAMPLE TYPE ..... DATE SAMPLED JUNE '69

FIELD SAMPLE No. 79 LAB SAMPLE No. 2913, ~~2928~~

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

2913 5'-10' STA. 2770 SAMPLE # 79

~~2928 6'-10' " 2705 " #94~~

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

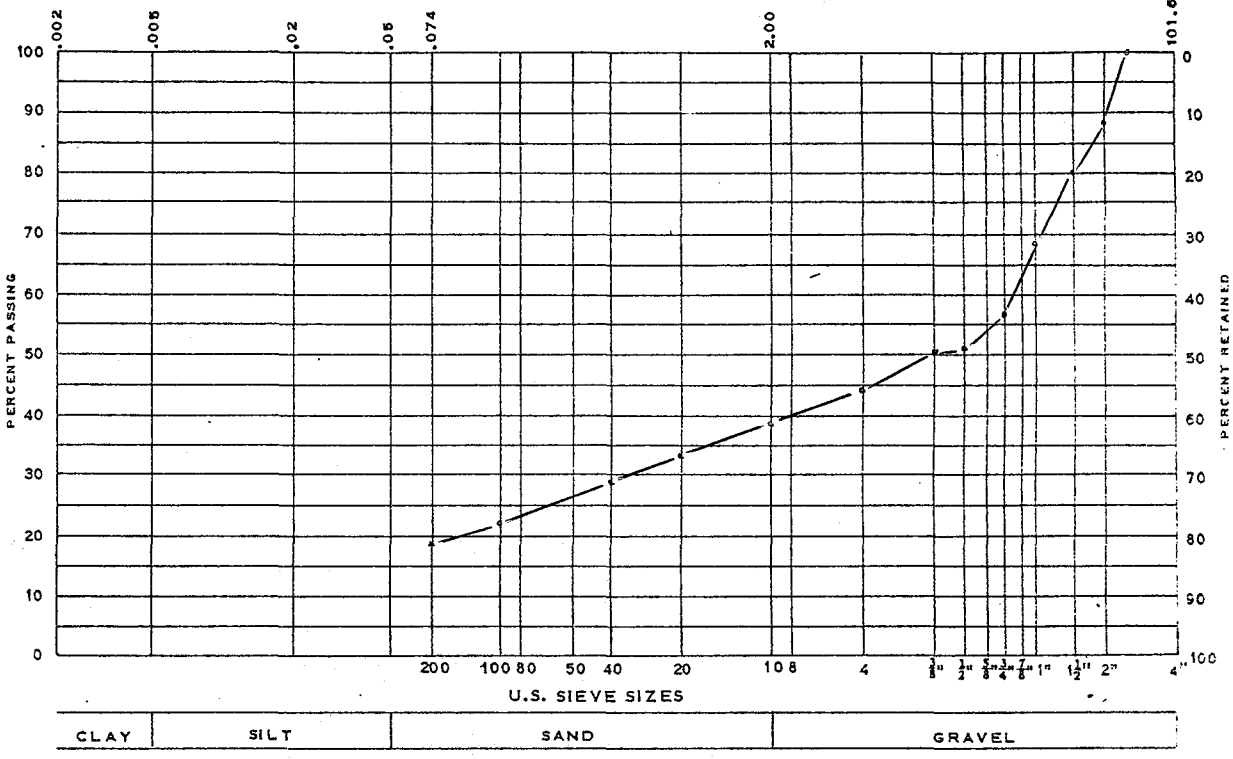
SHEET 05

FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	3"		50.3	3/8"					
88.3	2		44.7	#4					
80.1	1½		39.0	10					
67.9	1		33.6	20					
56.2	¾		28.8	40					
50.5	½		21.8	100					
			17.9	200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DS.G	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			18.9	17.6	1.3							
		A-1-b										
		GW										
		FAIR to WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY.

LOCATION STA. 2765'

HOLE No. ..... DEPTH 11½' to 16'

SAMPLE TYPE ..... DATE SAMPLED JUNE 69

FIELD SAMPLE No. 80 LAB SAMPLE No. 2914 ~~& 18~~

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

2914 - 11½'-16' STA. 2765 SAMPLE # 80

~~2918 3'-10' STA 2755 " # 84~~

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

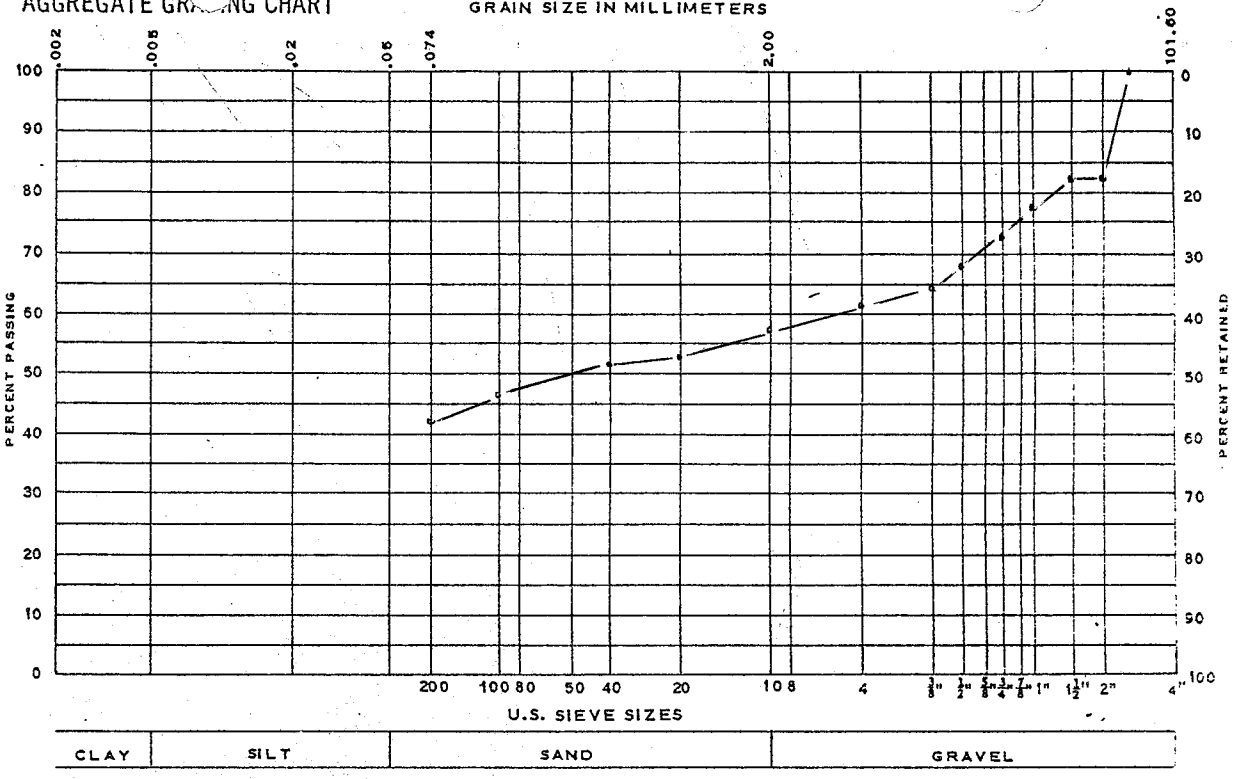
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	3"		64.7	3/8"					
82.5	2		61.2	#4					
82.5	1 1/2		57.2	10					
77.4	1		53.4	20					
73.0	3/4		50.6	40					
67.8	1/2		46.0	100					
			42.5	200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.2	18.0	3.2							
		A-4										
		S.M.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMSTER-HI-WAY

LOCATION STA. 2763

HOLE No. DEPTH 1½' to —

SAMPLE TYPE DATE SAMPLED JUNE '69

FIELD SAMPLE No. 81 LAB SAMPLE No. 2915 & 27

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-8-71 DATE

MATERIALS ENGINEER'S REMARKS

2915 - 1½'-? STA. 2763 SAMPLE # 81

~~2927 - 4'-10' " 2710 " #93~~

MATERIALS ENGINEER

DATE

SHEET OF

SIEVE ANALYSIS

SAMPLE NUMBER

FINER BY WEIGHT	%		%
4"	100	#4	27.0
3"	88.4	#10	22.5
2"	74.0	#20	18.0
1½"	74.0	#40	15.0
1"	64.3	#100	11.4
¾"	49.4	#200	9.5
½"	39.6		
⅜"	34.7		
+ 4"			

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.W.										
		FAIRLY WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .05 .074 2.00 101.60

PERCENT PASSING

100 90 80 70 60 50 40 30 20 10 0

0 10 20 30 40 50 60 70 80 90 100

200 100 80 50 40 20 10 8 4 ⅜" ½" ⅝" ¾" 1" 1½" 2" 4"

U.S. SIEVE SIZES

CLAY | SILT | SAND | GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2763 DEPTH 5' to 15'

HOLE No. DATE SAMPLED JUNE 69

SAMPLE TYPE LAB SAMPLE No. 2916

FIELD SAMPLE No. 82

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER — DATE 29-3-71

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER — DATE

673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

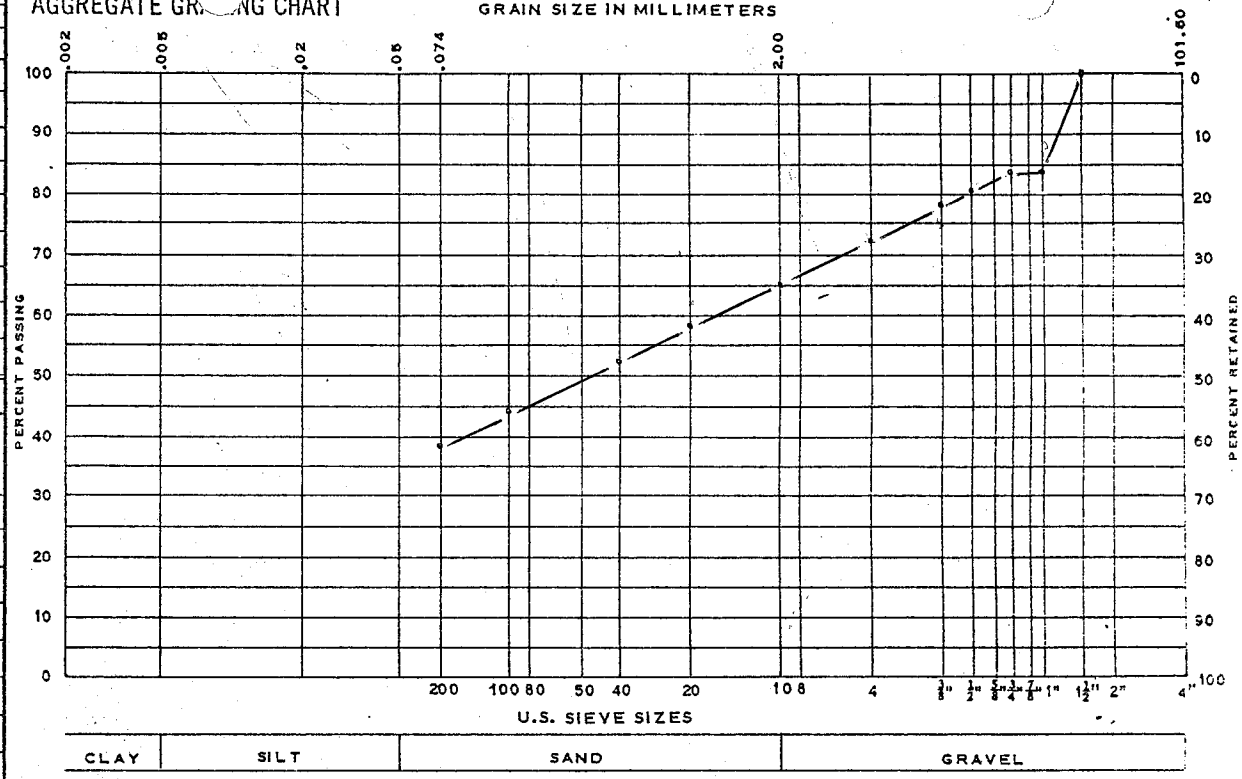
SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	1 1/2"		65.3	#10					
84.2	1		57.8	20					
84.2	3/4		52.4	40					
80.4	1/2		44.2	100					
77.9	3/8		39.1	200					
72.1	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.7	17.0	4.7							
		A-4										
		S.M. - S.C.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA. 2760

HOLE No. DEPTH 1' to 14'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 83 LAB SAMPLE No. 2917 ~~2926~~

D. P. W. WHITEHORSE - SOILS LAB

~~MATERIALS ENGINEER~~

25 - 3 - 70 DATE

MATERIALS ENGINEER'S REMARKS

2917 - 1'-14' STA. 2760 SAMPLE #83

~~2926 3' 10' " 2715 " #92~~

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

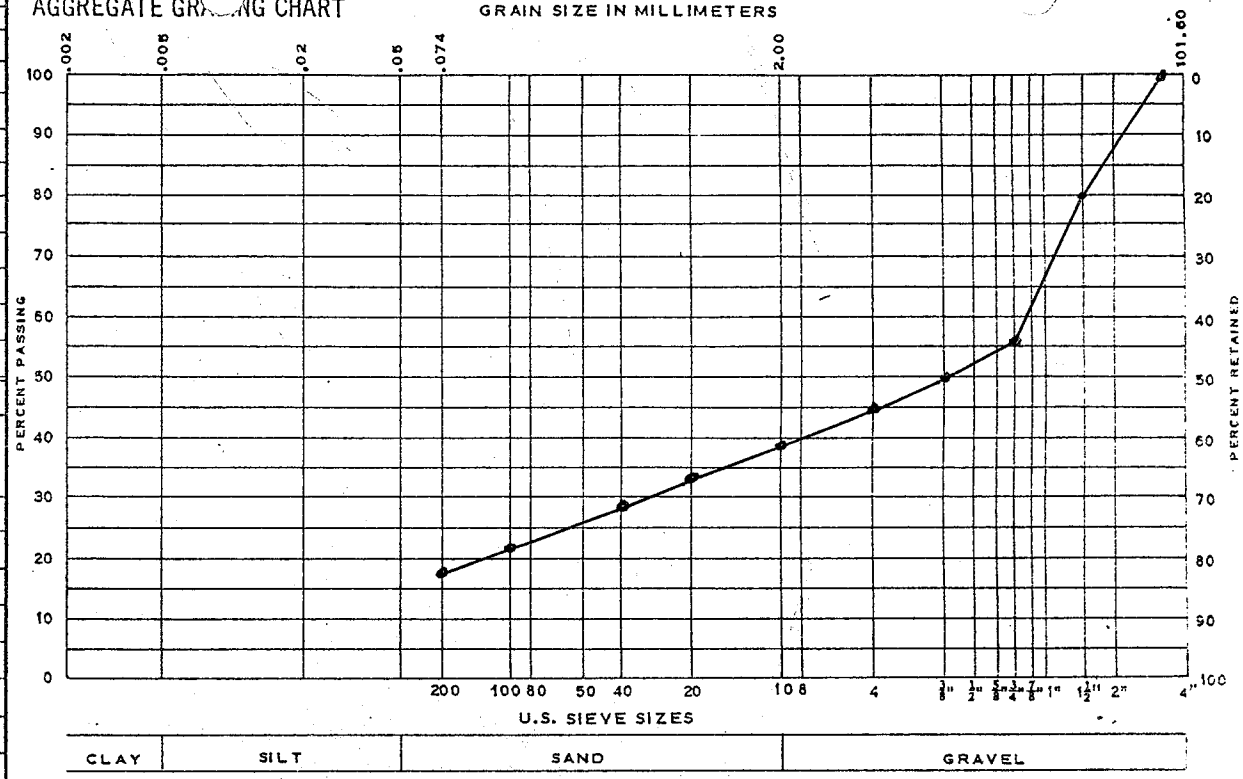
SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER									
	%			%						
3"	100		# 4	44.7						
2"	88.3		# 10	39.0						
1½"	80.1		# 20	33.6						
1"	67.9		# 40	28.8						
¾"	56.2		# 100	21.8						
½"	50.5		# 200	17.9						
⅜"	50.3									
% + 4"										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			18.9	17.6			1.3					
		A-1-b										
		G.W.										
		FAIR to WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY

LOCATION: STA. 2755

HOLE No.: DEPTH: 3' to 10'

SAMPLE TYPE: DATE SAMPLED: JUNE 69

FIELD SAMPLE No.: 84 LAB SAMPLE No.: 2918

D. P. W. WHITEHORSE - SOILS LAB

30-3-71

TESTING ENGINEER — DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER — DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET 05

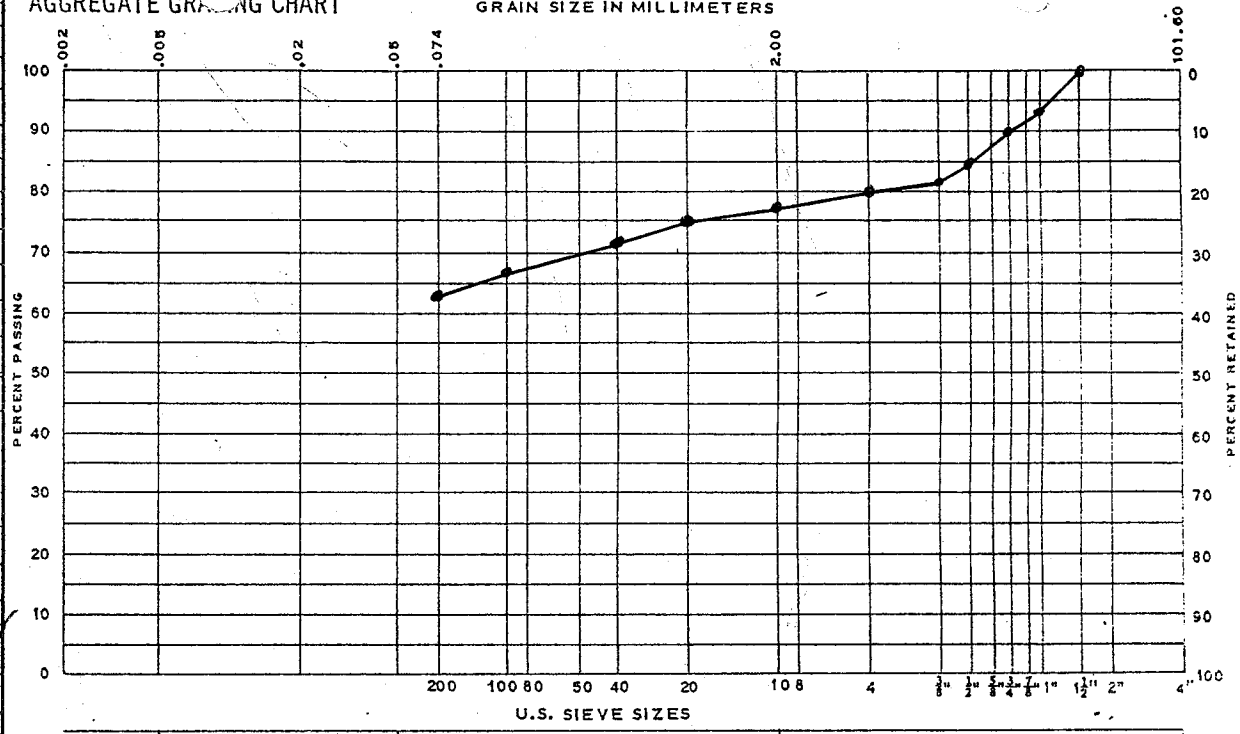
% FINER BY WEIGHT	%	SIEVE ANALYSIS SAMPLE NUMBER		%
1½"	93.7		# 4	79.7
1 "	↓		# 10	77.6
¾ "	90.0		# 20	74.9
½ "	85.2		# 40	72.1
⅜ "	82.5		# 100	67.0
			# 200	62.9

% + 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			25.2	21.1	4.1							
		A-4										
		M.L.										
		SANDY SILT WITH SLIGHT PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY
LOCATION STA. 2750
HOLE No. DEPTH 4' to 9'
SAMPLE TYPE DATE SAMPLED JUNE 69
FIELD SAMPLE No. 85 LAB SAMPLE No. 2919
D. P. W. WHITEHORSE - SOILS LAB J. M.
29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

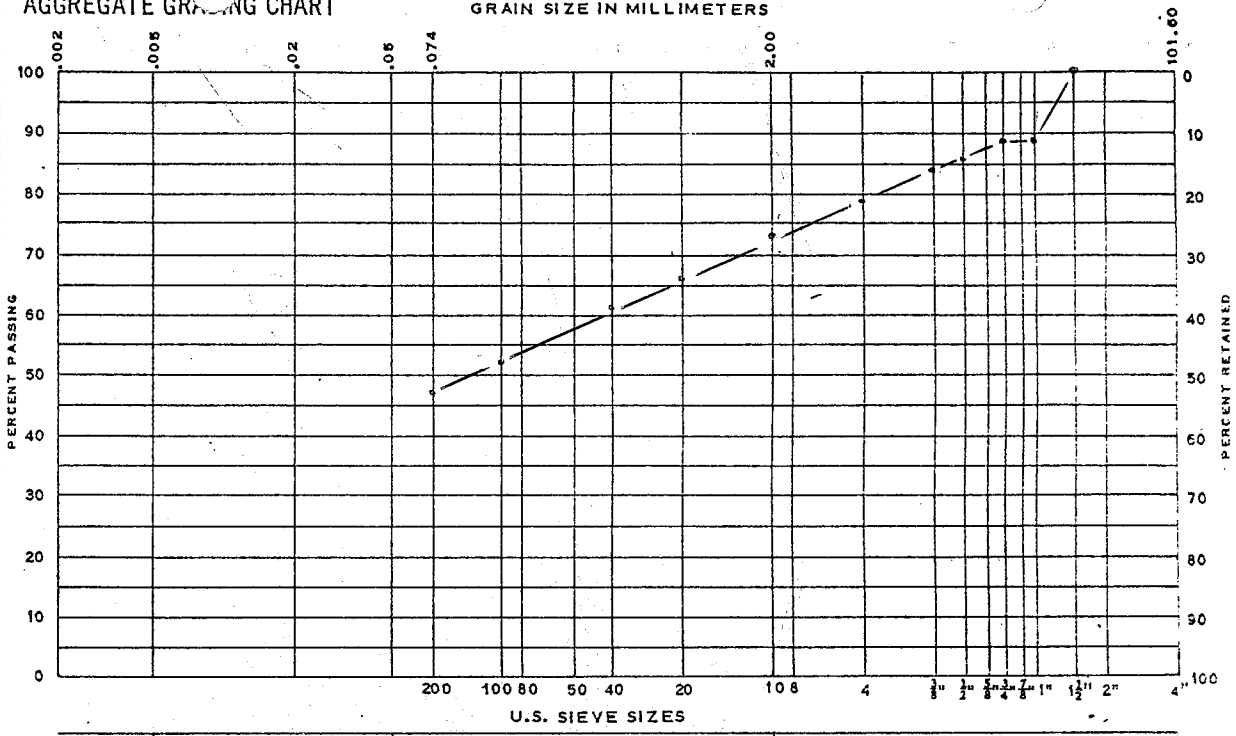
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	1 1/2"		T3.1	#10					
89.1	1		66.0	20					
89.1	3/4		60.9	40					
85.7	1/2		52.2	100					
84.5	3/8		46.8	200					
78.9	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.2	18.0	3.2							
		A-4										
		S.M.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT

LOCATION DEMPSTER HI-WAY. STA. 2745.

HOLE No. DEPTH 9'-14'

SAMPLE TYPE DATE SAMPLED JUNE '69.

FIELD SAMPLE No. 86 LAB SAMPLE No. 7920

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

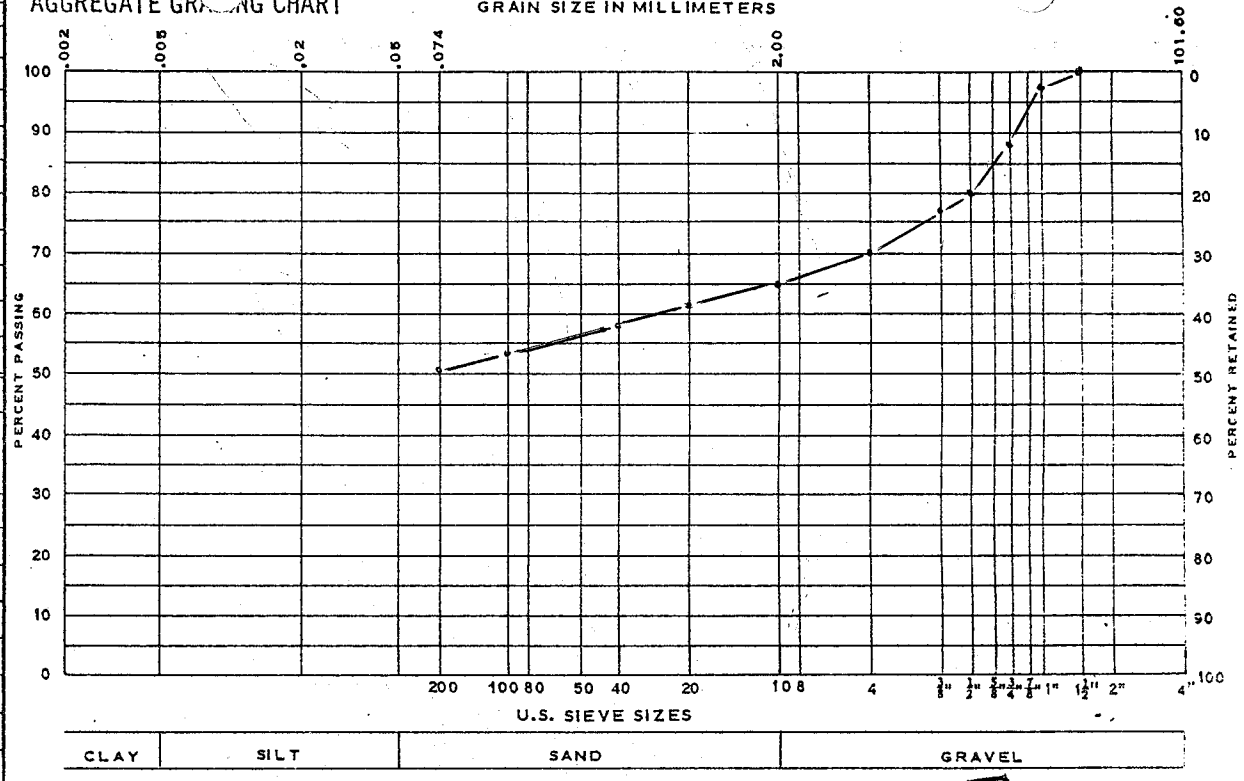
SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER									
100.0	1 1/2"		65.0	#10						
97.3	1		60.9	20						
88.1	3/4		57.8	40						
80.0	1/2		53.0	100						
76.3	3/8		50.4	200						
69.7	#4									
% + 4"										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.2	18.0	3.2							
		A-4										
		S.M.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2745 DEPTH 4'-10'

HOLE No. DATE SAMPLED JUNE '69

SAMPLE TYPE LAB SAMPLE No. 2921

FIELD SAMPLE No. 87

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

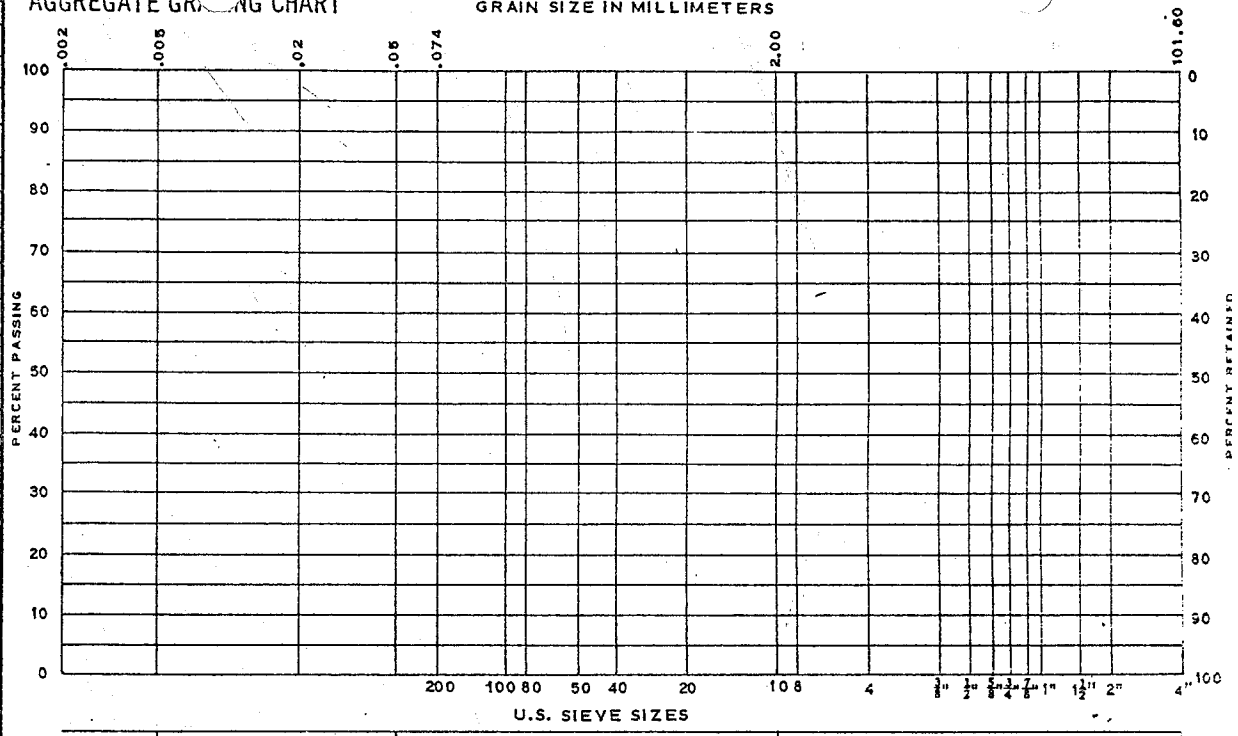
SHEET OF

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
	92.7% PASSING #200 SIEVE							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.4	15.6	5.8							
		A-4										
		M.L. - C.L.										
		CLAYEY SILT WITH SLIGHT PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2735'

HOLE No. DEPTH 4' to 10'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 88 LAB SAMPLE No. 2922

D. P. W. WHITEHORSE - SOILS LAB J. M.

26-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

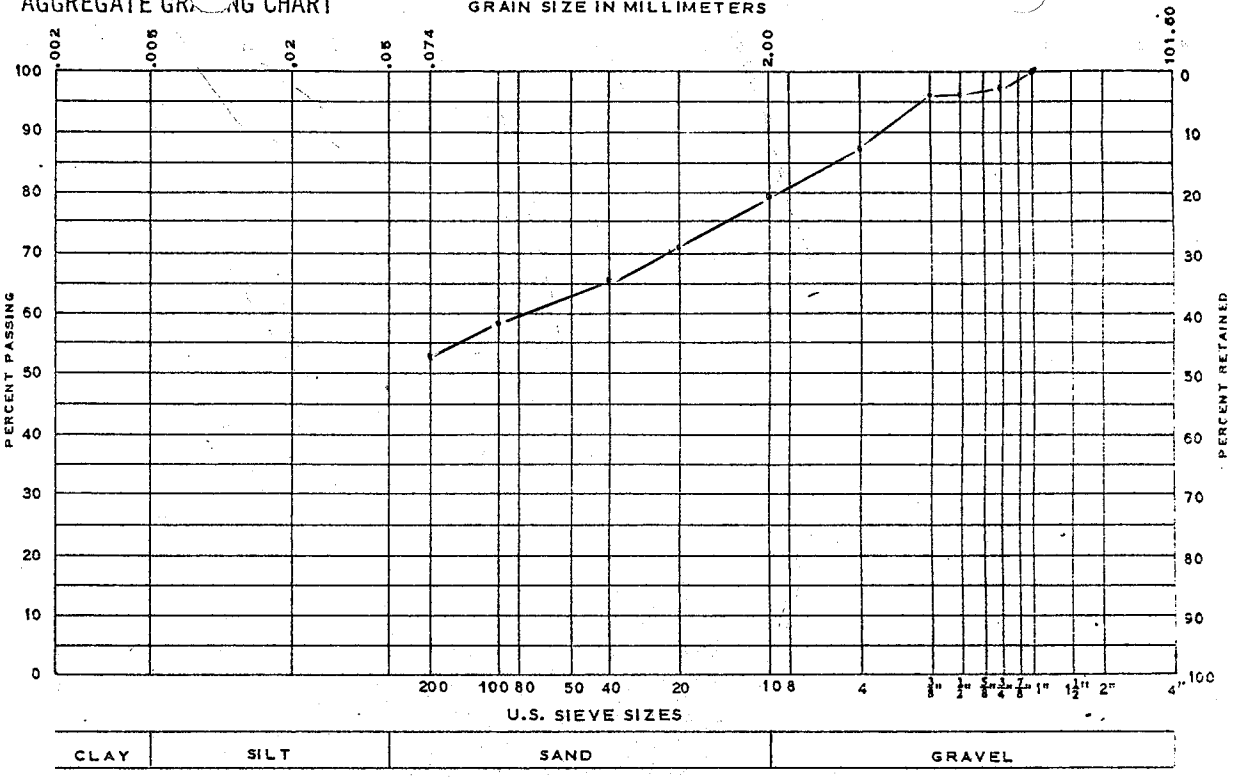
% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	1"		79.3	#10					
97.3	3/4		70.7	20					
96.3	1/2		65.5	40					
96.3	3/8		57.9	100					
87.0	#4		53.4	200					

% + 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.9	18.9	4.0							
		A-4										
		M.L.										
		SILT-SAND MIXTURE WITH SLIGHT PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA. 2730

HOLE No. ..... DEPTH 5' to 10'

SAMPLE TYPE ..... DATE SAMPLED JUNE '69

FIELD SAMPLE No. 89 LAB SAMPLE No. 2923 ~~#29~~

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER 25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

2923 - 5'-10' STA. 2730 SAMPLE #89.

~~2929 - 5'-10' " 2700 " #95~~

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

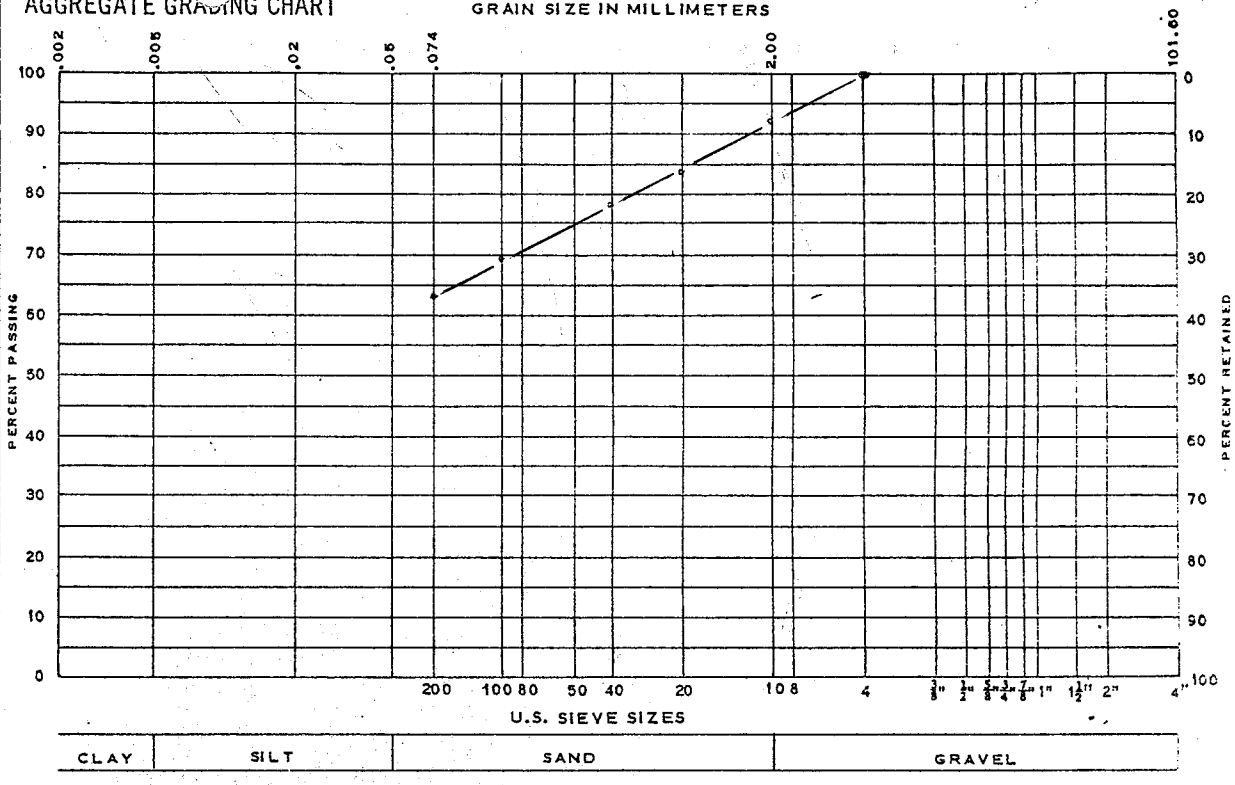
% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER
100.0	#4
91.6	10
84.3	20
78.4	40
69.7	100
63.4	200

% + 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			25.2	21.1	4.1							
		A-4										
		ML										
		SANDY SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA 2725

HOLE NO. ..... DEPTH 5'-10'

SAMPLE TYPE ..... DATE SAMPLED JUNE '69

FIELD SAMPLE No. 90 ..... LAB SAMPLE No. 2724

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

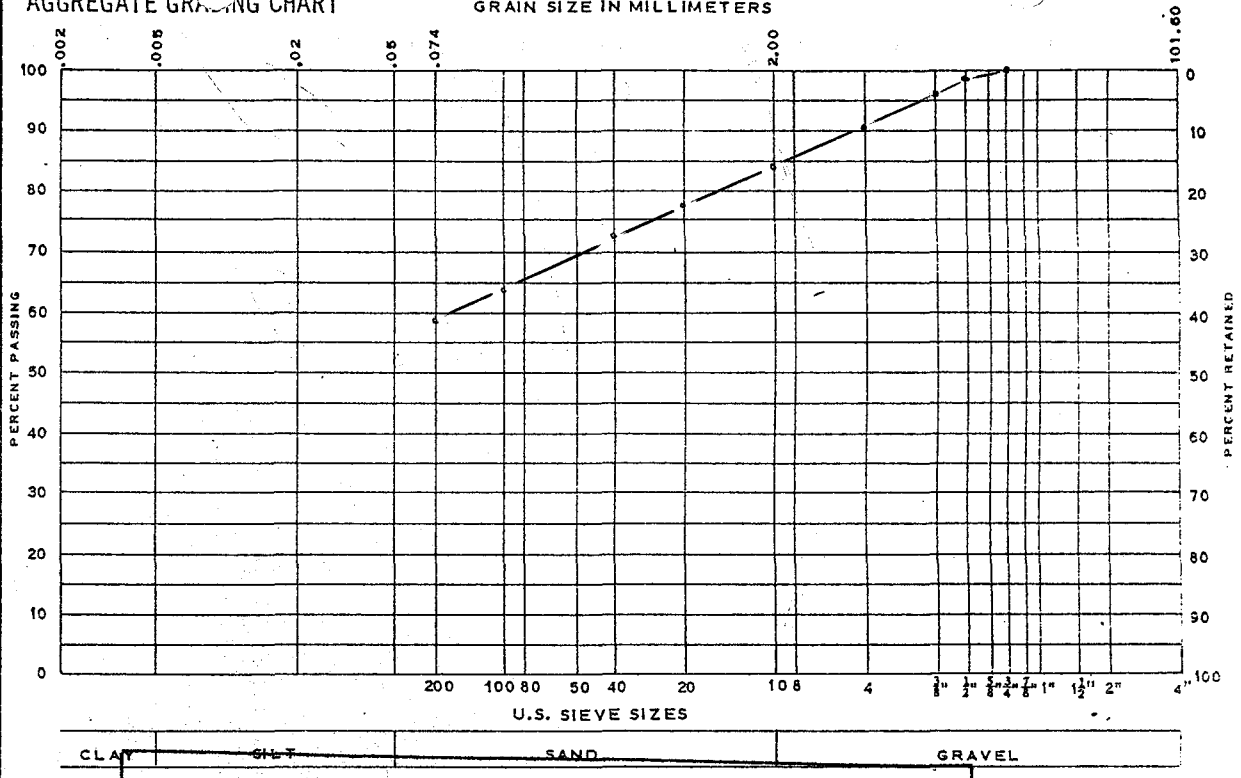
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	3/4"		84.3	#10					
98.9	1/2		77.3	20					
95.8	3/8		72.5	40					
90.5	#4		64.1	100					
			58.6	200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			25.2	21.1	4.1							
		A-4										
		M.L.										
		SANDY SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT

LOCATION DEMPSTER HI-WAY STA. 2720

HOLE No. DEPTH 4'-10'

SAMPLE TYPE DATE SAMPLED JUNE '69

FIELD SAMPLE No. 91 LAB SAMPLE No. 2725

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

SIEVE ANALYSIS

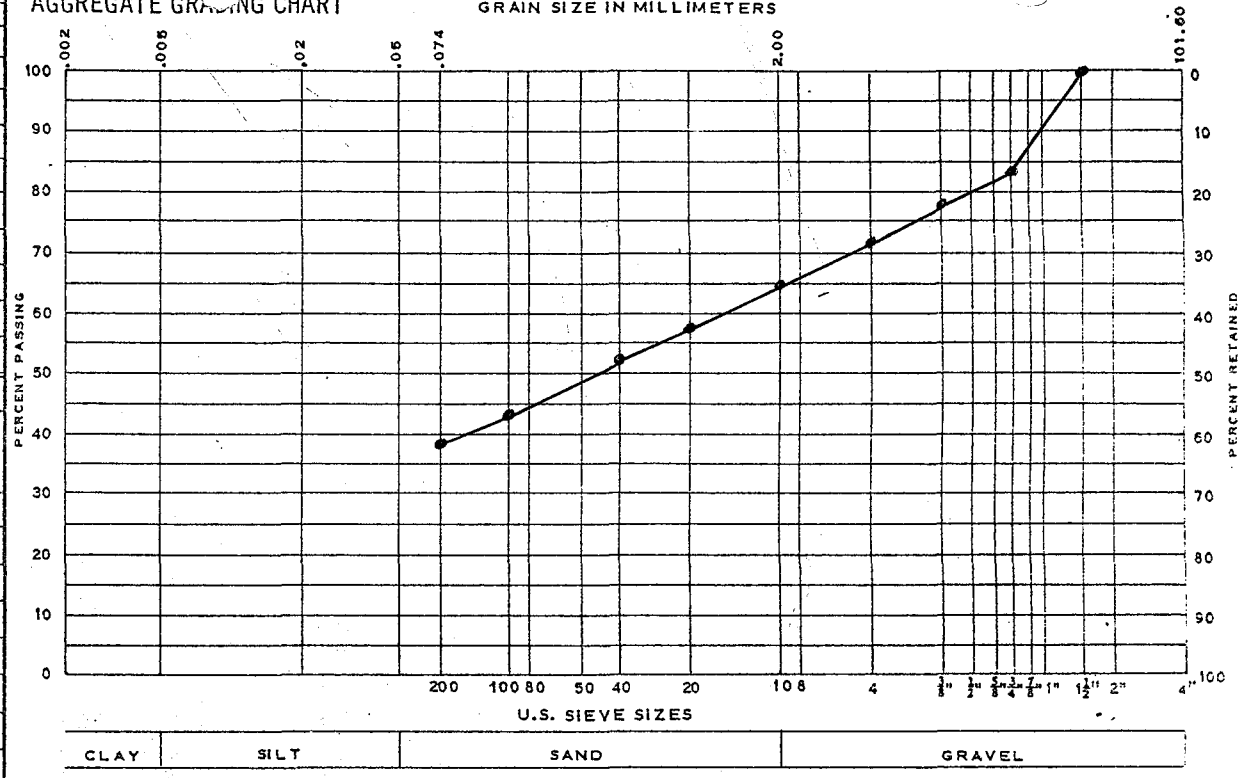
% FINER BY WEIGHT	SAMPLE NUMBER			
	%			%
1½"	100		# 4	72.1
1"	84.2		# 10	65.3
¾"	84.2		# 20	57.8
½"	80.4		# 40	52.4
⅜"	77.9		# 100	44.2
			# 200	39.1

% + 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.7	17.0	4.7							
		A-4										
		S.M.-S.C.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY
LOCATION STA. 2715
HOLE NO. DEPTH 3' to 10'
SAMPLE TYPE DATE SAMPLED JUNE 69
FIELD SAMPLE No. 92 LAB SAMPLE No. 2926
D. P. W. WHITEHORSE - SOILS LAB J. M.
30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

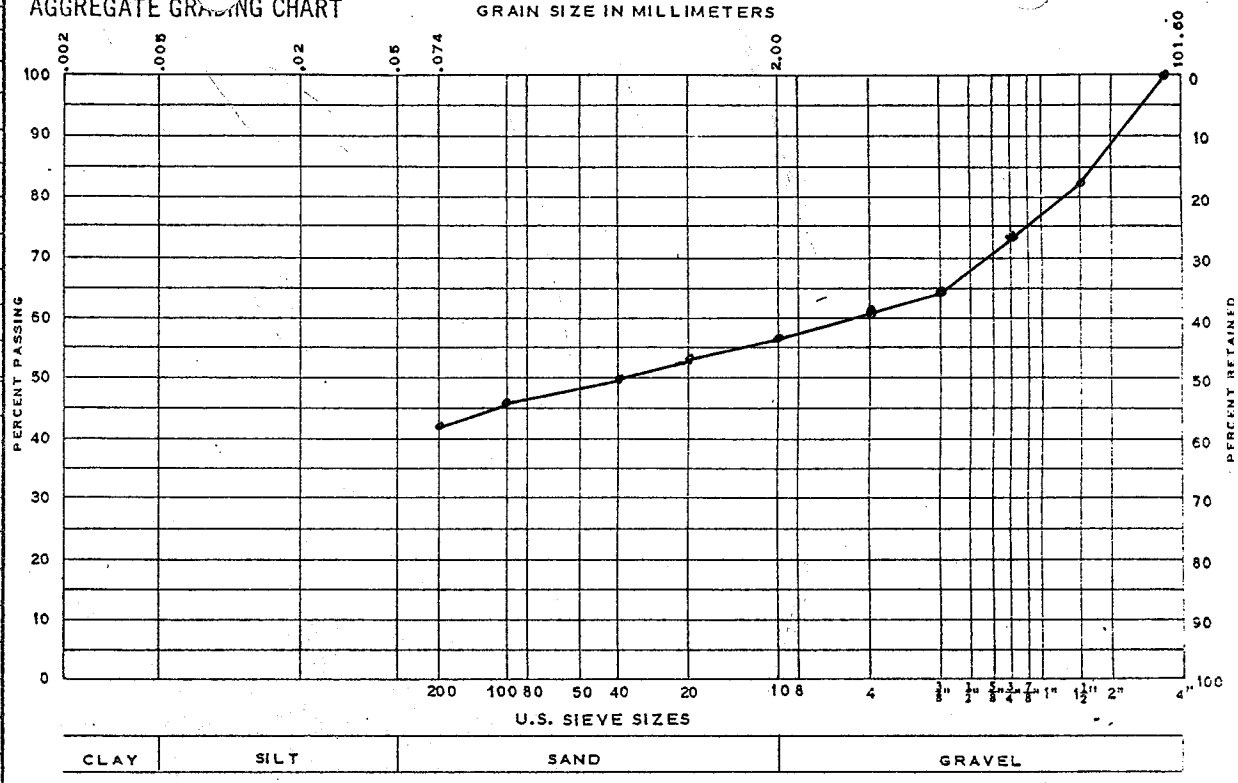
SIEVE ANALYSIS

% FINER BY WEIGHT	SAMPLE NUMBER								
	%			%					
3"	100		# 4	61.2					
2"	82.5		# 10	57.2					
1½"	82.5		# 20	53.4					
1"	77.4		# 40	50.6					
¾"	73.0		# 100	46.0					
½"	67.8		# 200	42.5					
⅜"	64.7								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.2		18.0		3.2					
		A-4										
		S.M.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2710

HOLE No. ..... DEPTH 4' to 10'

SAMPLE TYPE ..... DATE SAMPLED JUNE 69

FIELD SAMPLE No. 93 LAB SAMPLE No. 2927

J. P. W. WHITEHORSE - SOILS LAB

30-3-71

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

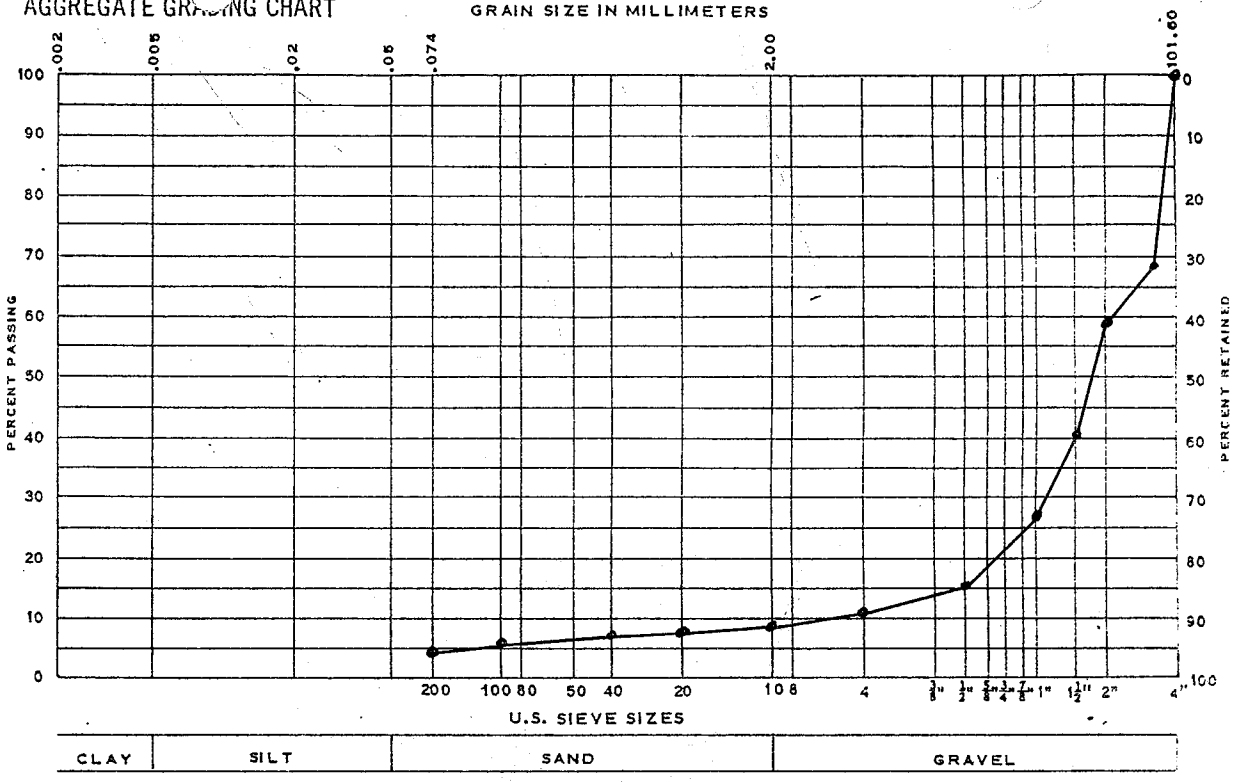
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER									
	%			%						
4"	100		# 4	11.2						
3"	68.8		# 10	9.6						
2"	59.4		# 20	8.3						
1½"	40.8		# 40	7.4						
1"	27.2		# 100	6.0						
¾"	19.7		# 200	4.9						
½"	15.4									
⅜"	13.4									
% + 4"										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.P.										
		POORLY GRADED GRAVEL - SAND										
		MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2705

HOLE No. DEPTH 6' to 10'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 94 LAB SAMPLE No. 2928

D. P. W. WHITEHORSE - SOILS LAB

30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

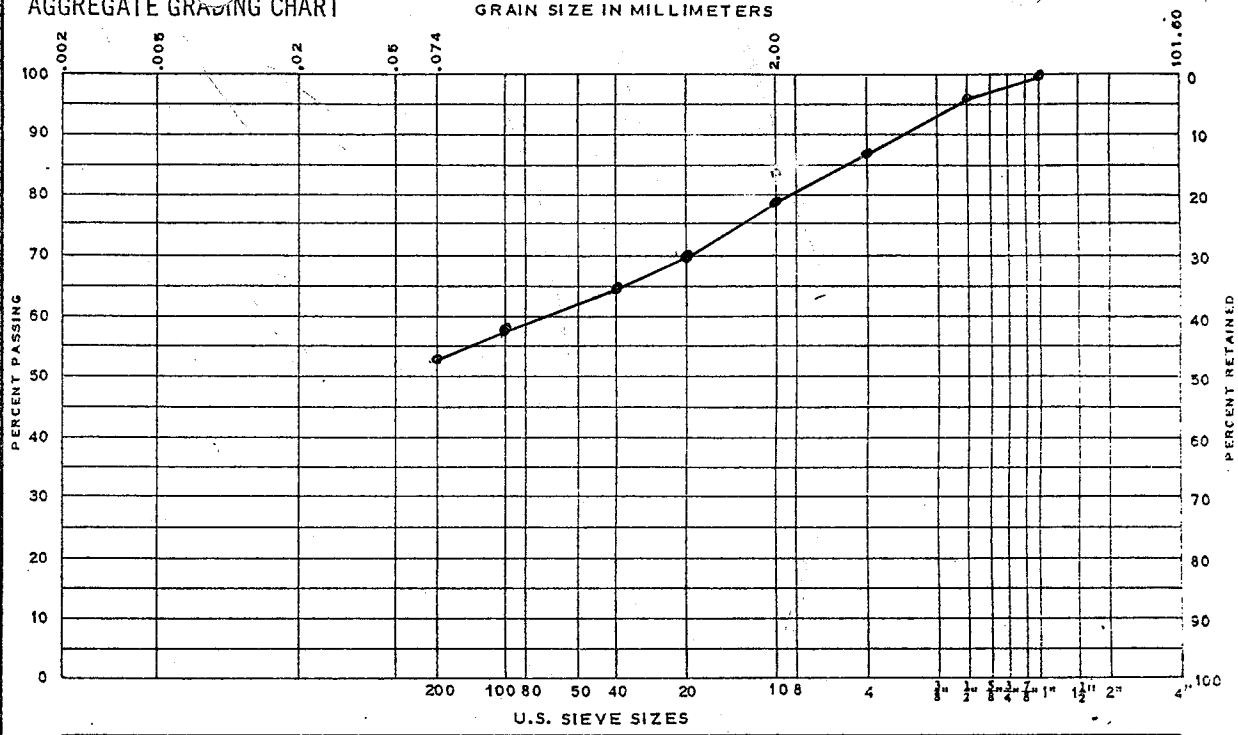
SIEVE ANALYSIS

% FINER BY WEIGHT	SAMPLE NUMBER								
	%			%					
1 "	100		# 4	87.0					
3/4 "	97.3		# 10	79.3					
1/2 "	96.3		# 20	70.7					
3/8 "	96.3		# 40	65.5					
			# 100	57.9					
			# 200	53.4					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.9	18.9	4.0							
		A-4										
		M.L.										
		SILT - SAND MIXTURE WITH SLIGHT PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

LOCATION: DEMPSTER HIGHWAY

PIT: DEPTH 5' to 10'

SAMPLE TYPE: STA. 2700 DATE SAMPLED JUNE 69

FIELD SAMPLE No. 95 LAB SAMPLE No. 2929

D. P. W. WHITEHORSE - SOILS LAB

J. M.

30-3-71

TESTING ENGINEER _____ DATE _____

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER _____ DATE _____

AGGREGATE DEPOSIT REPORT (Cont'd)

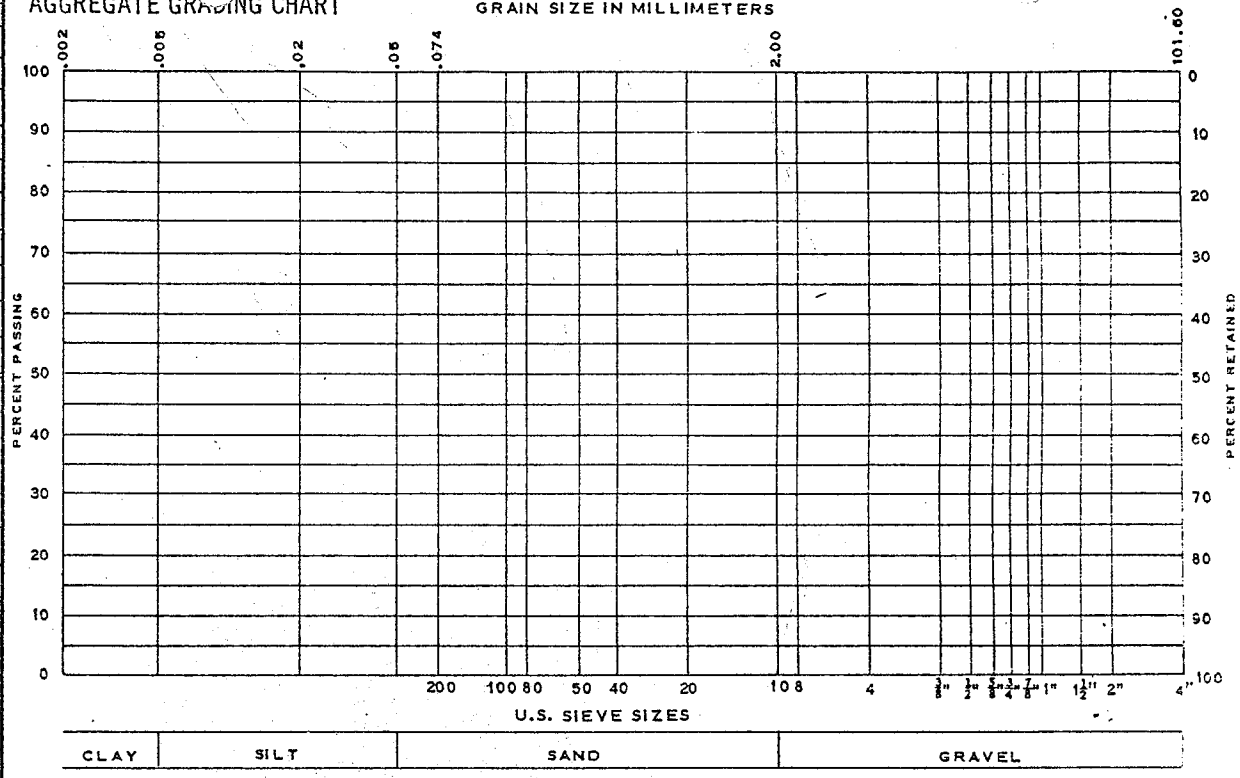
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	81.2% PASSING #200 SIEVE								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.6	21.2			1.4					
		A-4										
		M.L.										
		SANDY SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION

HOLE No. DEPTH

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. LAB SAMPLE No.

D. P. W. WHITEHORSE - SOILS LAB

26-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

2930 STA. 2695' #96 4' to 10'

2931 STA. 2690 #97 2' to 7'

~~2937 STA. 2675 #103 4' to 7'~~

MATERIALS ENGINEER DATE

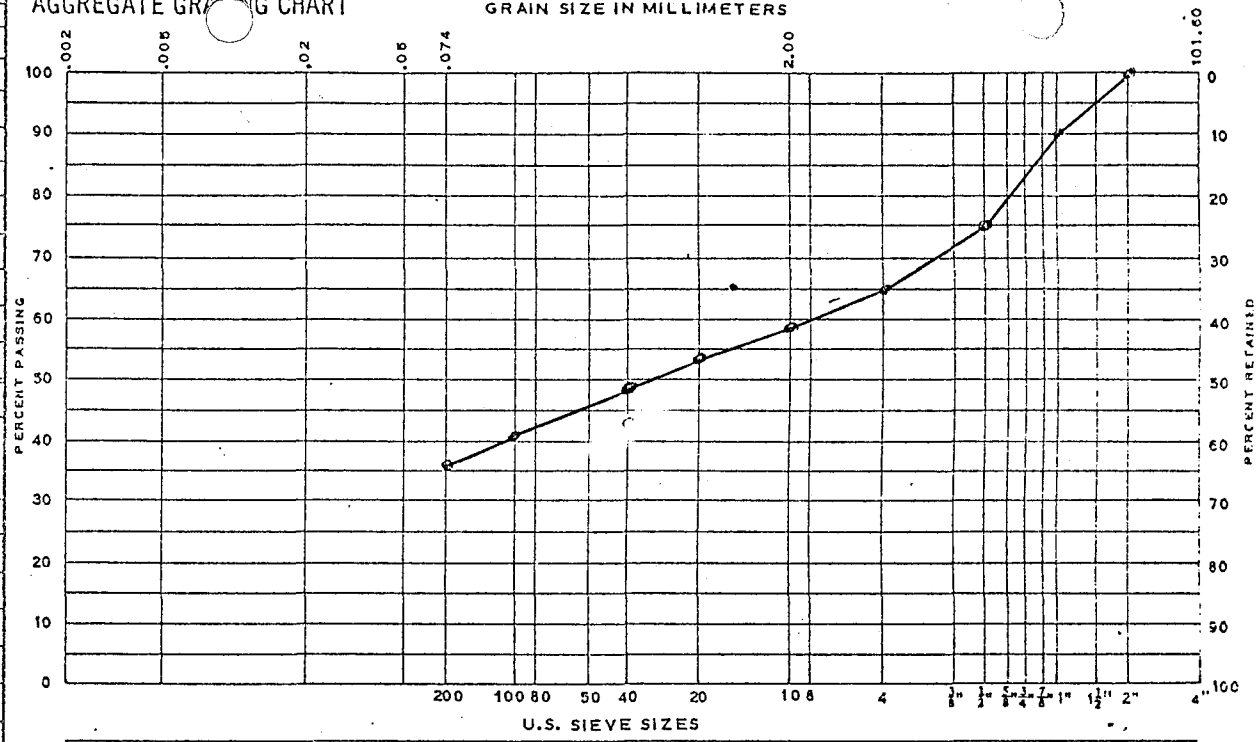
SHEET OF

INER BY IGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	%			%					
"	100		# 4	65.6					
½ "	92.1		# 10	59.4					
"	84.8		# 20	53.8					
¼ "	81.9		# 40	49.3					
"	75.2		# 100	41.5					
"	72.6		# 200	36.2					
+ 4"									

IPLE O.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.7	17.0	4.7							
		A-4										
		S.M. - S.C.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2690

HOLE No. DEPTH 7' to 10'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 98 LAB SAMPLE No. 2932

D. P. W. WHITEHORSE - SOILS LAB J. ml.

30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

573 A

AGGREGATE DEPOSIT REPORT (Cont'd)

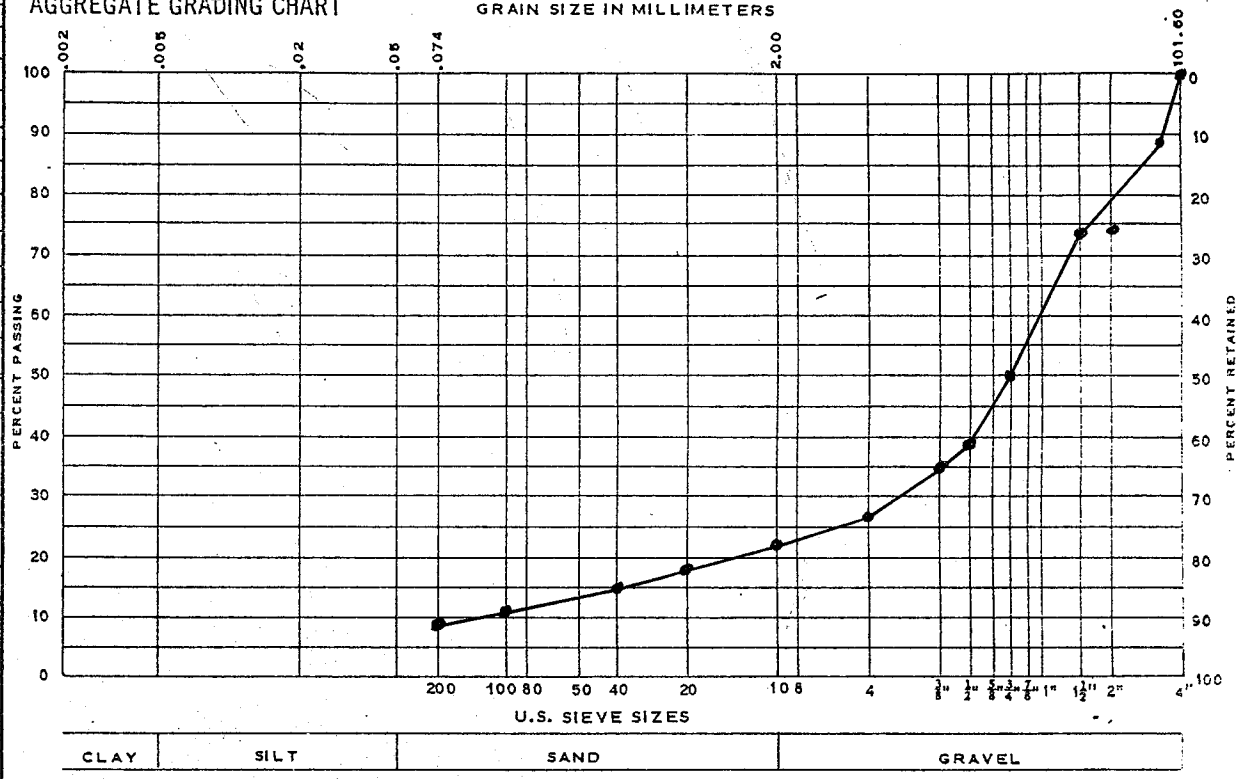
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER									
	%			%						
4"	100		#4	27.0						
3"	88.4		#10	22.5						
2"	74.0		#20	18.0						
1½"	74.0		#40	13.0						
1"	64.3		#100	11.4						
¾"	49.4		#200	9.5						
½"	39.6									
⅜"	34.7									
% + 4"										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.W.										
		FAIRLY WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY
LOCATION STA. 2765
HOLE No. DEPTH 2' to 10'
SAMPLE TYPE DATE SAMPLED JUNE 69
FIELD SAMPLE No. 99 LAB SAMPLE No. 2933
D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

29-3-71
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

SHEET OF

FINER BY WEIGHT

SIEVE ANALYSIS

SAMPLE NUMBER

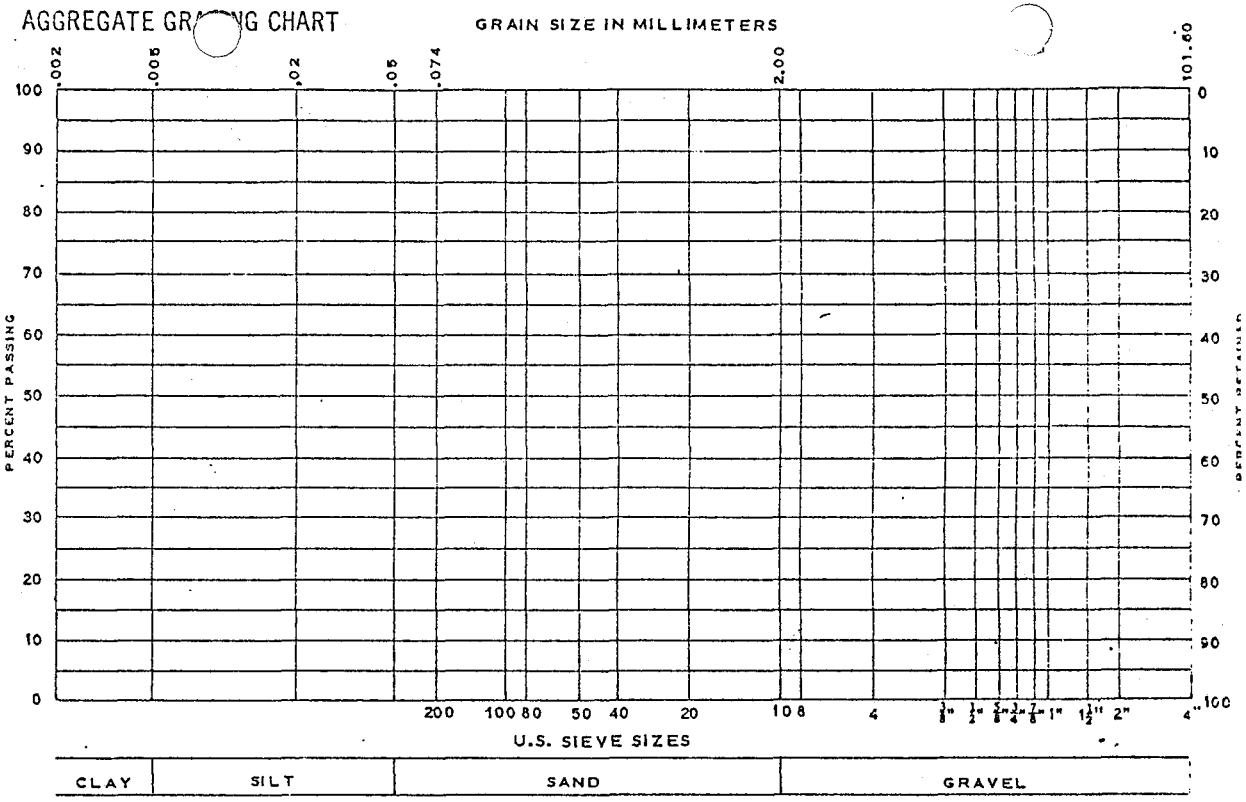
90.0 % PASSING #200 SIEVE

+ 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			34.5	25.3	9.2							
		A-4										
		M.L.										
		CLAYEY SILT OF MED. PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2680

HOLE No. DEPTH 3' to 7'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 100 LAB SAMPLE No. 2934

D. P. W. WHITEHORSE - SOILS LAB

J. M.

TESTING ENGINEER

30-3-71

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

673 A

SHEET OF

SIEVE ANALYSIS

FINER BY WEIGHT

SAMPLE NUMBER

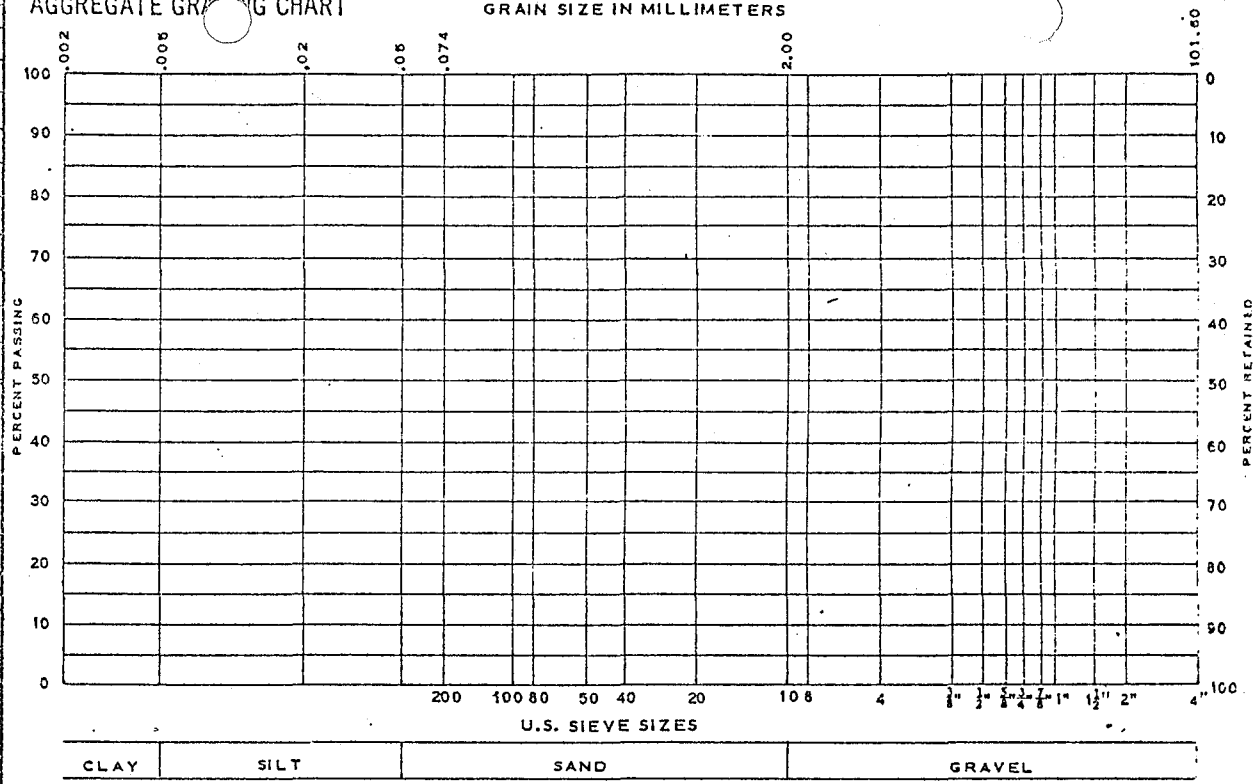
81.4% PASSING # 200 SIEVE

+ 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			27.9		22.8			5.1				
		A-4										
		M.L.										
		SANDY SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2680

HOLE No. DEPTH 7' to 10'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 101 LAB SAMPLE No. 2935

D. P. W. WHITEHORSE - SOILS LAB

J. M.

30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

573 A

SHEET OF

SIEVE ANALYSIS

SAMPLE NUMBER

FINER BY WEIGHT

90.0 % PASSING #200 SIEVE

+ 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			34.5	25.3				9.2				
		A-4										
		M.L.										
		CLAYEY SILT OF MED. PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .05 .074 2.00 101.60

PERCENT PASSING 100 90 80 70 60 50 40 30 20 10 0

PERCENT RETAINED 0 10 20 30 40 50 60 70 80 90 100

200 100 80 50 40 20 10 8 4 3/8" 1/2" 3/8" 3/4" 1" 1 1/2" 2" 4"

U.S. SIEVE SIZES

CLAY | SILT | SAND | GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2675'

HOLE No. DEPTH 3' to 4'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 102 LAB SAMPLE No. 2936

D. P. W. WHITEHORSE - SOILS LAB

J. M.

30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

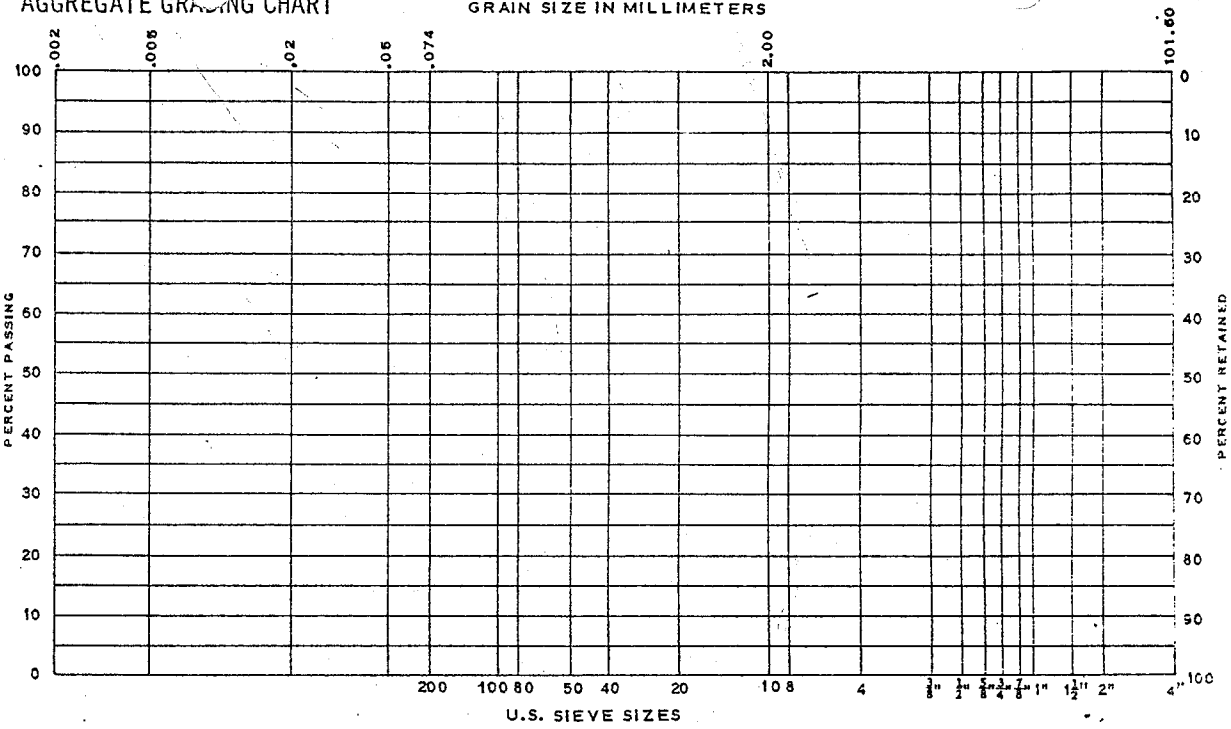
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
		81.2 % PASSING #200 SIEVE							
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.6	21.2	1.4							
		A-4										
		M.L.										
		SANDY SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION DEMPSTER HIGHWAY DEPTH 4' to 7'

HOLE No. DEPTH DATE SAMPLED JUNE 69

SAMPLE TYPE STA. 2675 LAB SAMPLE No. 2937

FIELD SAMPLE No. 103

D. P. W. WHITEHORSE - SOILS LAB

30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

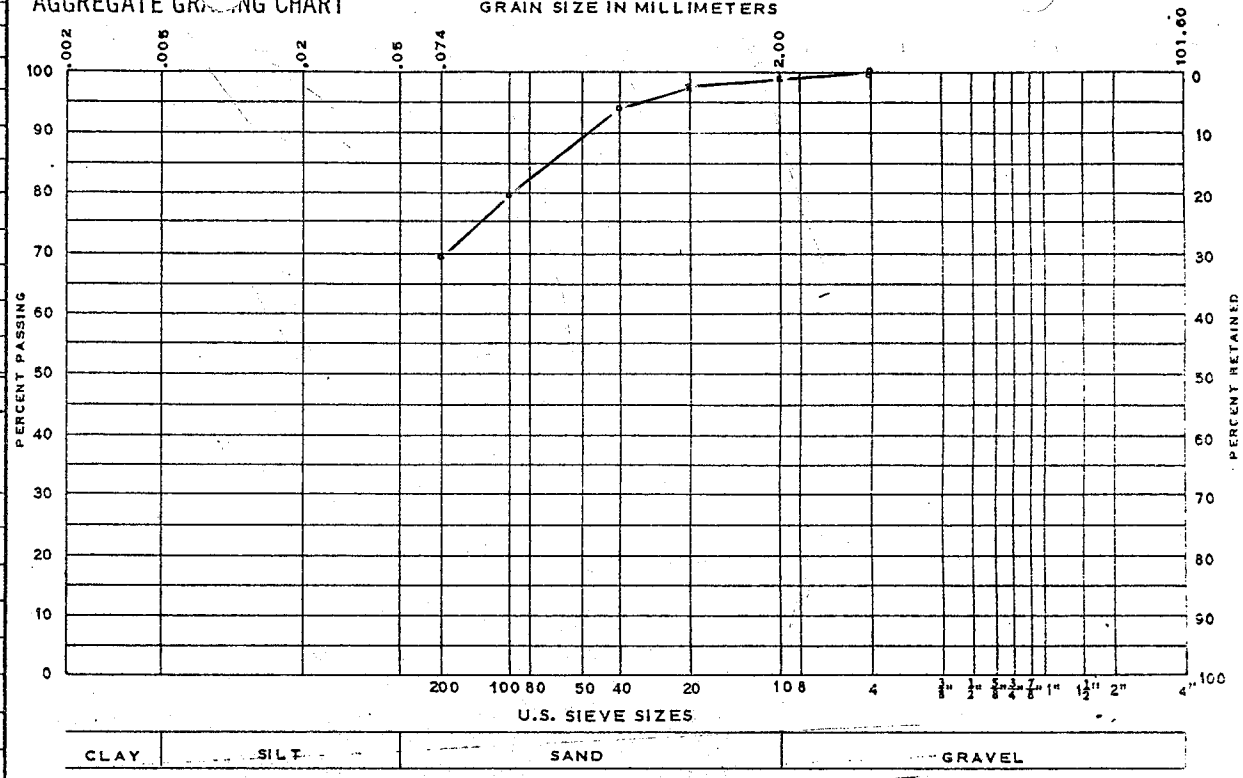
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER
100.0	#4
99.2	10
97.8	20
94.3	40
79.7	100
69.2	200
% + 4"	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			30.1	27.4	2.7							
		A-4										
		M.L.										
		SANDY SILT.										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY.

LOCATION STA. 2675

HOLE No. ..... DEPTH 7'-10'

SAMPLE TYPE ..... DATE SAMPLED JUNE '69.

FIELD SAMPLE No. 104. ..... LAB SAMPLE No. 2938

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE 25-3-71

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

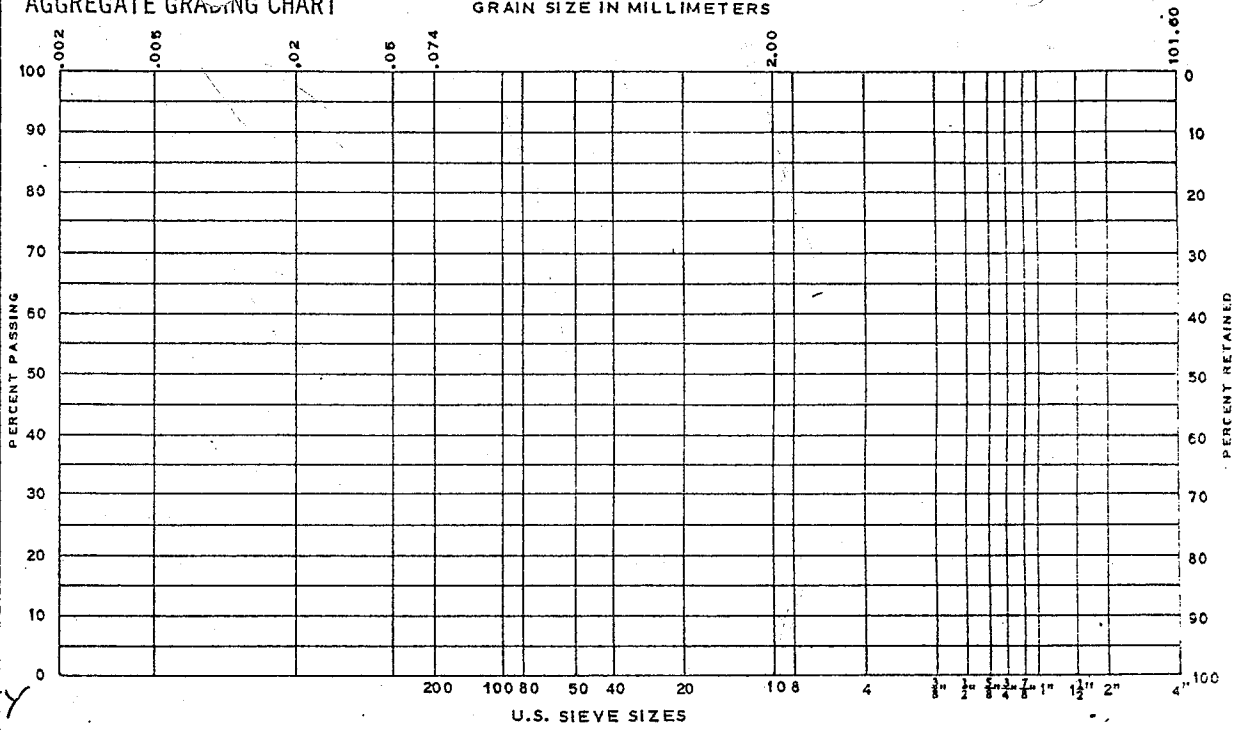
SHEET

FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
	MORE THAN 75% PASSING #200 SIEVE							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			54.5	47.6	6.9							
		A-5										
		~~M.H.~~										
		M.H.										
		ELASTIC SILT - FINE SAND MIXTURE WITH SLIGHT PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2670

HOLE No. ..... DEPTH 2' to 6'

SAMPLE TYPE ..... DATE SAMPLED JUNE 69

FIELD SAMPLE No. 105 LAB SAMPLE No. 2939

D. P. W. WHITEHORSE - SOILS LAB

J. M.

26-3-71

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

SHEET OF

SIEVE ANALYSIS

SAMPLE NUMBER

FINER BY WEIGHT	
	81.4% PASSING #200 SIEVE
+ 4"	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			27.9	22.8	5.1							
		A-4										
		M.L.										
		SANDY SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .05 .074 2.00 101.60

PERCENT PASSING: 100 90 80 70 60 50 40 30 20 10 0

0 10 20 30 40 50 60 70 80 90 100

200 100 80 50 40 20 10 8 4 ⅛" ½" ⅜" ¼" ⅛" 1" 1½" 2" 4"

U.S. SIEVE SIZES

CLAY	SILT	SAND	GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2670

HOLE No. DEPTH 6' to 8'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 106 LAB SAMPLE No. 2940

D. P. W. WHITEHORSE - SOILS

30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

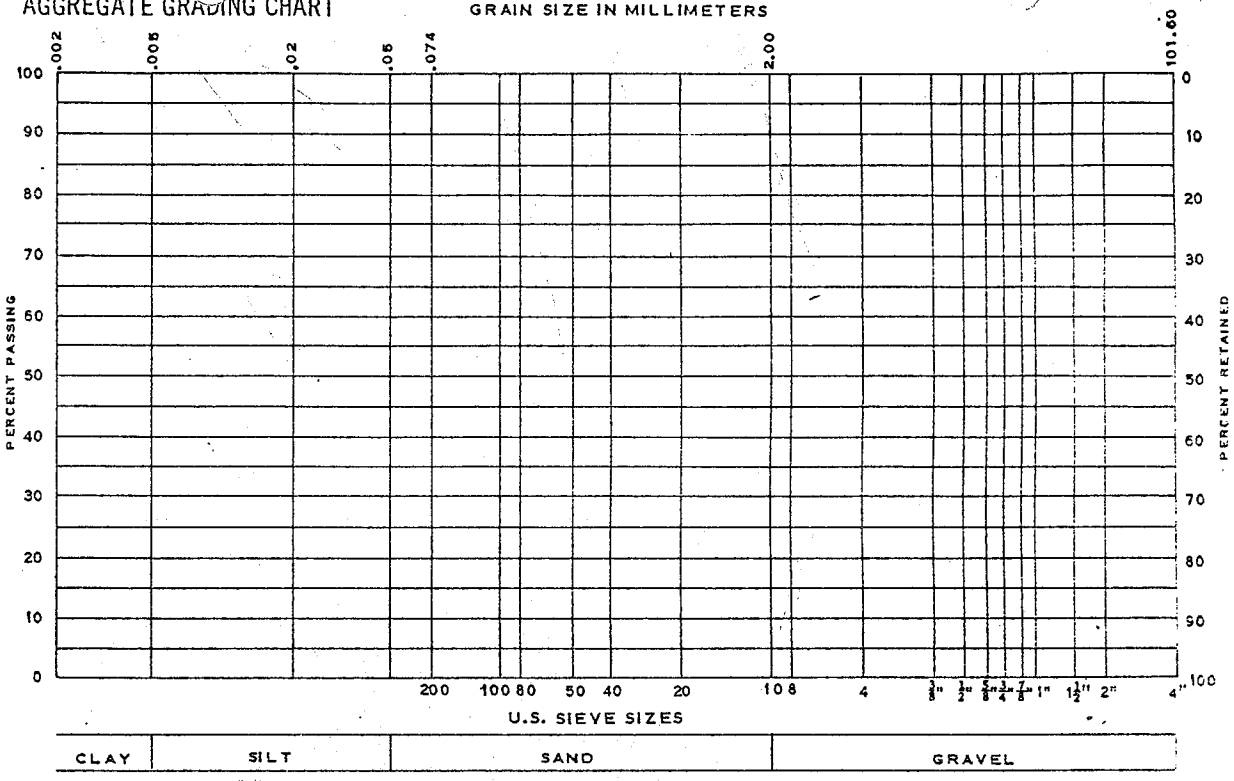
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	86.5% PASSING #200 SIEVE								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			32.6	29.0	3.6							
		A-4										
		M.L.										
		SANDY SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2665'

HOLE No. ..... DEPTH 2' to 8'

SAMPLE TYPE ..... DATE SAMPLED .....

FIELD SAMPLE No. 107 LAB SAMPLE No. 2941

D. P. W. WHITEHORSE - SOILS LAB J. M.

26-3-71

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

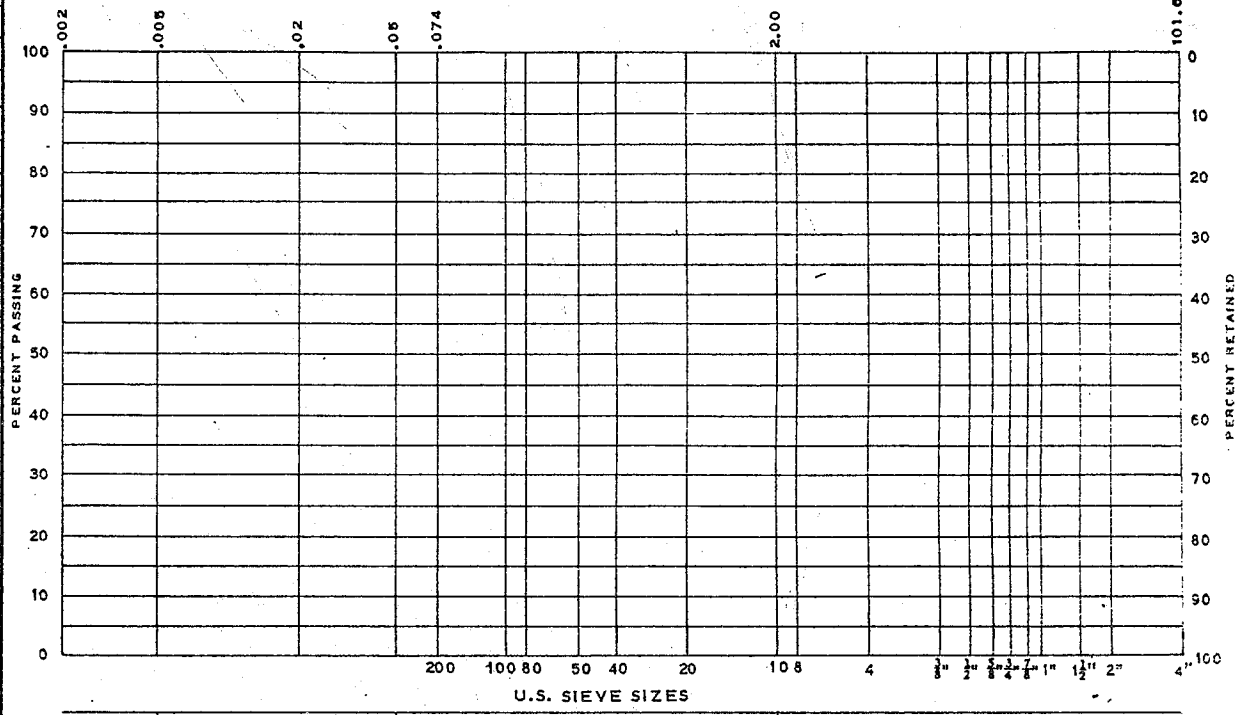
SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
	95.9 % PASSING #200 SIEVE							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			40.0	34.5	5.5							
		A-4 M.L. CLAYEY SILT - VERY FINE SAND MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2660

HOLE No. DEPTH ?

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 108 LAB SAMPLE No. 2942

D. P. W. WHITEHORSE - SOILS LAB

D. M.

26-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

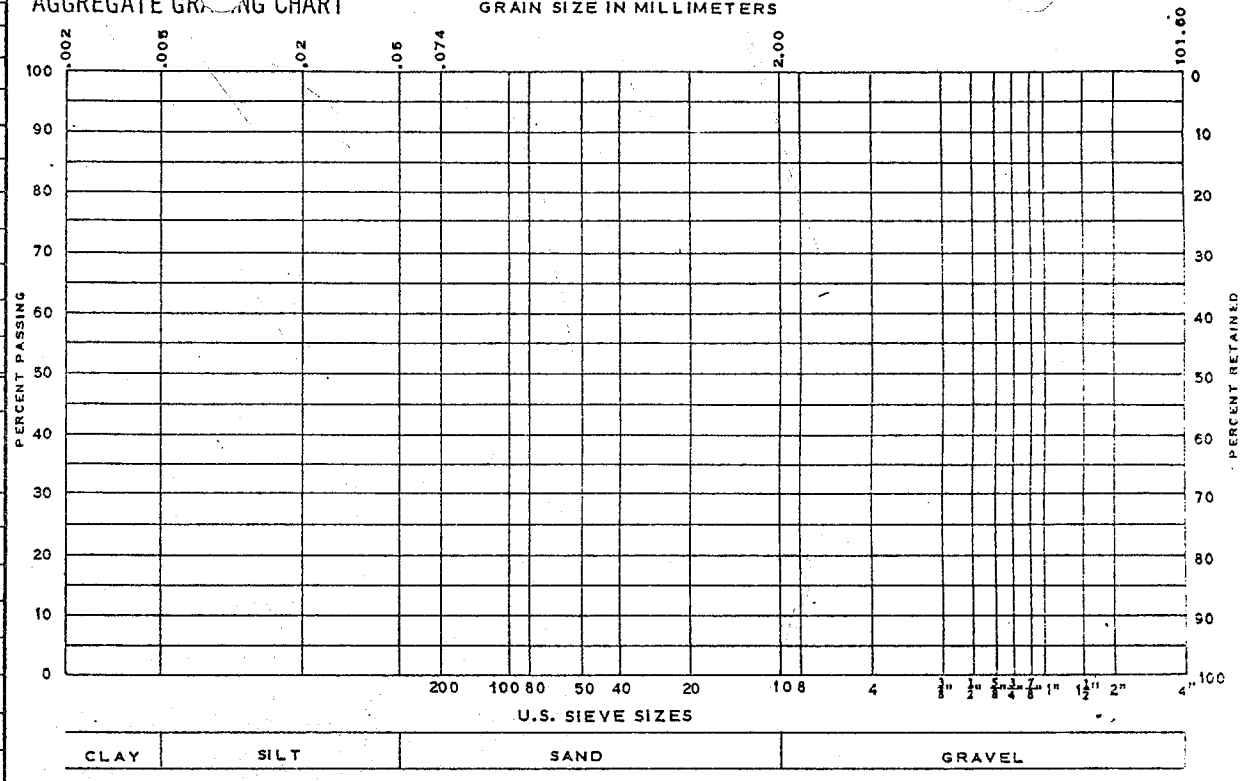
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	81.4% PASSING #200 SIEVE								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			27.9		22.8			5.1				
		A-4										
		M.L.										
		SANDY SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2660

HOLE No. ..... DEPTH 7' to 10'

SAMPLE TYPE ..... DATE SAMPLED JUNE 69

FIELD SAMPLE No. 109 LAB SAMPLE No. 2943

D. P. W. WHITEHORSE - SOILS LAB J.M.

30-3-71

TESTING ENGINEER ____ DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ____ DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

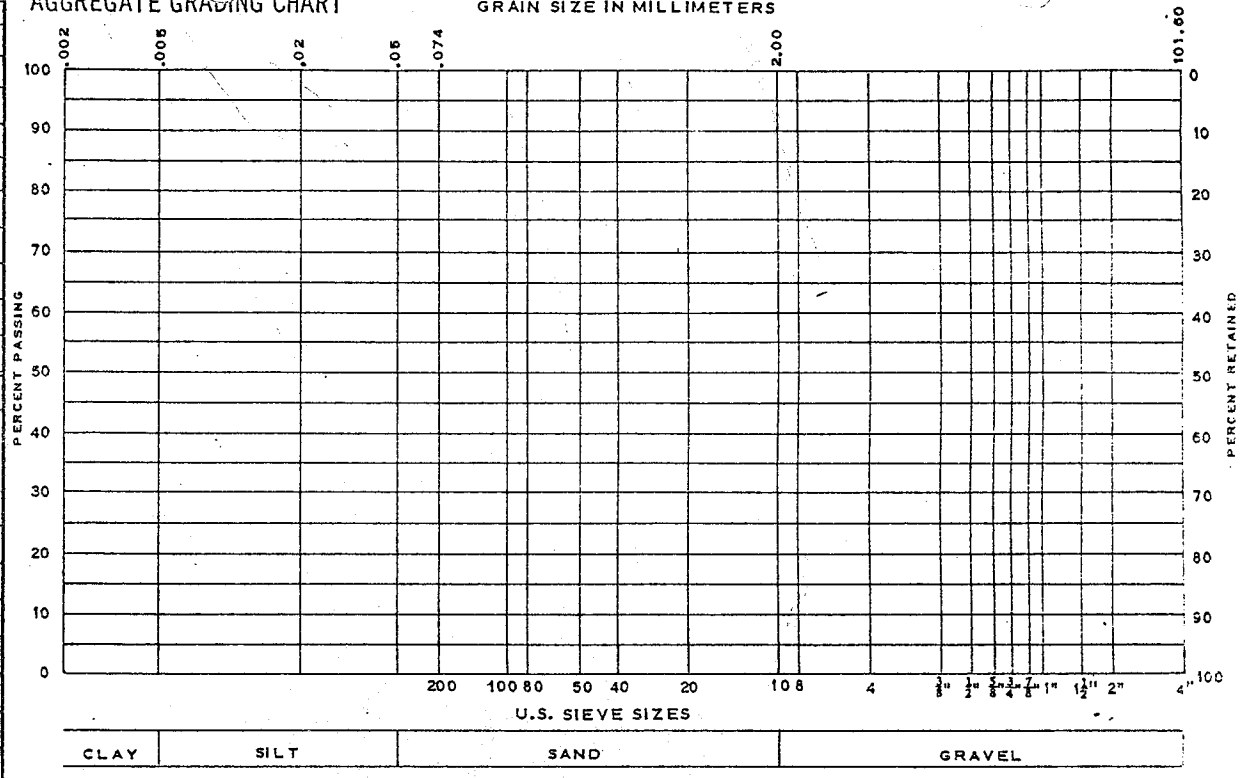
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS / SAMPLE NUMBER
	90.0 % PASSING #200 SIEVE
% + 4"	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			34.5	25.3				9.2				
		A-4										
		M.L.										
		CLAYEY SILT OF MED. PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2655

HOLE No. DEPTH 3' TO 10'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 110 LAB SAMPLE No. 2944

D. P. W. WHITEHORSE - SOILS LAB

J. M.

TESTING ENGINEER

30-3-71

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

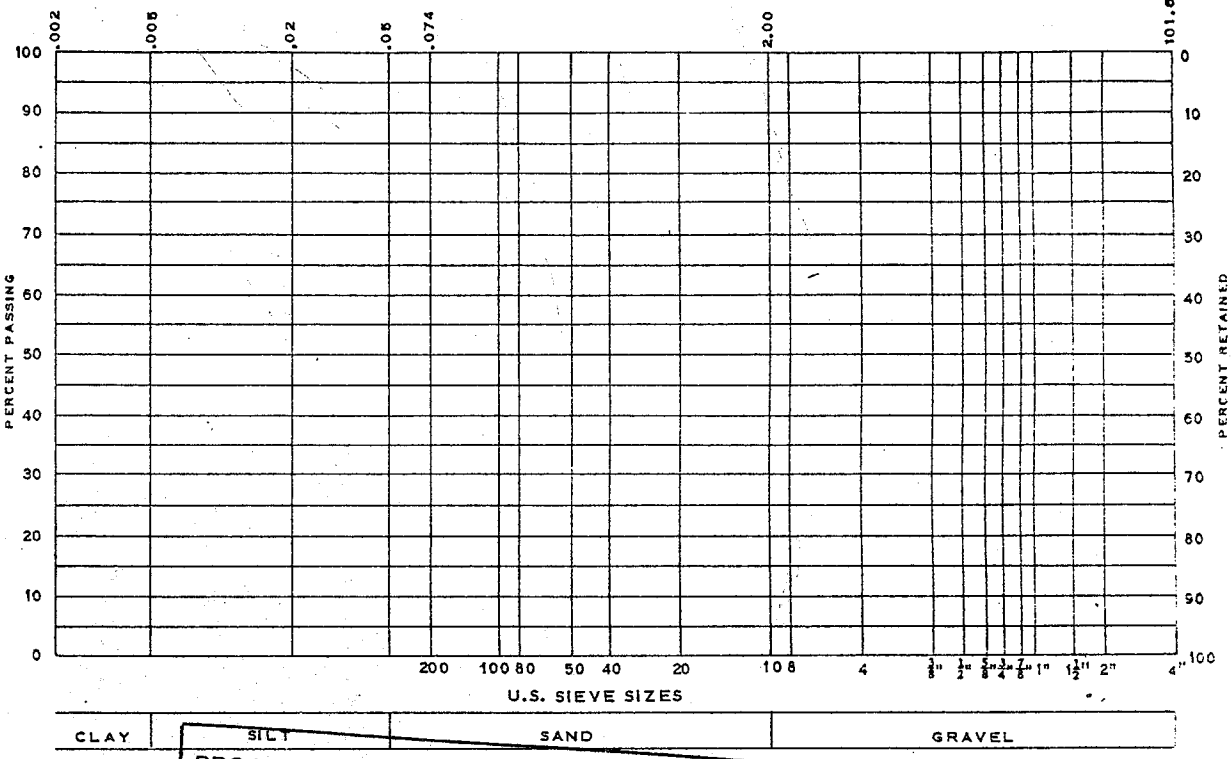
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
	95.2% PASSING # 200 SIEVE							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			37.1	30.6	6.5							
		A-4										
		M.L.										
		CLAYEY SILT - VERY FINE SAND MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY
LOCATION STA. ~~NOT GIVEN~~ 2650
HOLE No. DEPTH NOT GIVEN
SAMPLE TYPE DATE SAMPLED
FIELD SAMPLE No. 111 LAB SAMPLE No. 2945
D. P. W. WHITEHORSE - SOILS LAB

26-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	84.4% PASSING #200 SIEVE								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			25.8	21.1	4.7							
		A-4 M.L.-C.L. CLAYEY SILT WITH SLIGHT PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .05 .074 2.00 101.60

PERCENT PASSING: 100 90 80 70 60 50 40 30 20 10 0

PERCENT RETAINED: 0 10 20 30 40 50 60 70 80 90 100

200 100 80 50 40 20 10 8 4 3/8" 1/2" 5/8" 3/4" 7/8" 1" 1 1/2" 2" 4"

U.S. SIEVE SIZES

CLAY	SILT	SAND	GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY 2695

LOCATION STA. ~~NOT GIVEN~~ DEPTH NOT GIVEN

HOLE No. DATE SAMPLED JUNE 69

SAMPLE TYPE LAB SAMPLE No. 2946

FIELD SAMPLE No. # 112

D. P. W. WHITEHORSE - SOILS LAB

26-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

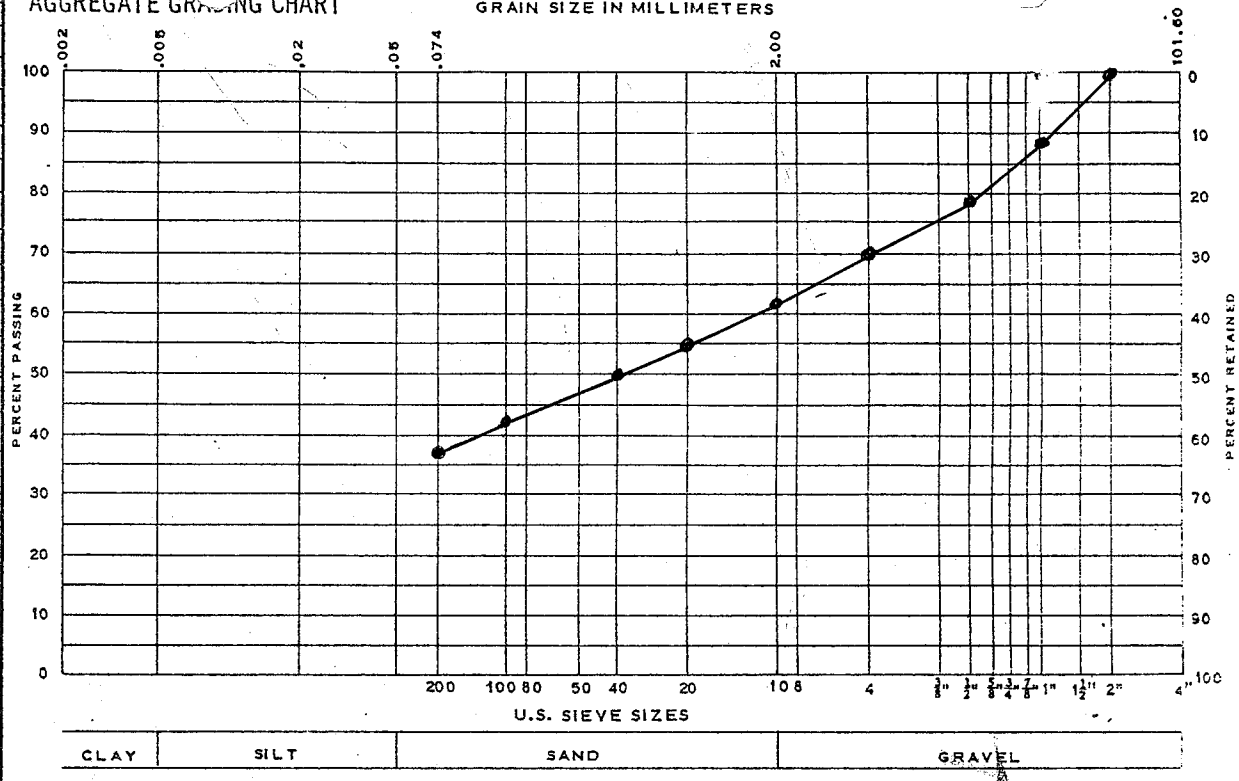
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER									
	%			%						
2 "	100		# 4	70.2						
1½ "	89.6		# 10	62.0						
1 "	87.8		# 20	55.0						
¾ "	84.4		# 40	50.3						
½ "	79.3		# 100	42.3						
⅜ "	76.0		# 200	36.9						
% + 4"										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.7		12.0		4.7					
		A-4										
		S.M. - S.C.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2640

HOLE No. DEPTH 3' to 7'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 113 LAB SAMPLE No. 2947

D. P. W. WHITEHORSE - SOILS LAB

J. M.

30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

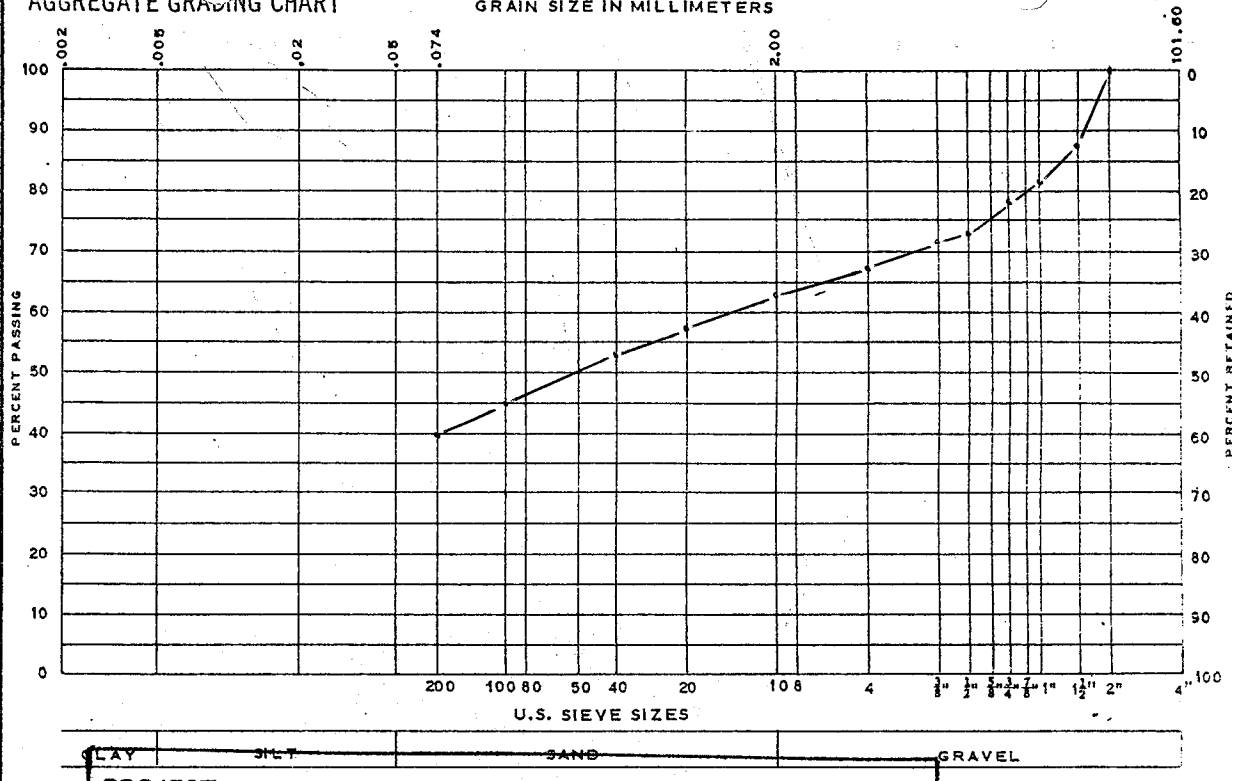
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	2"		62.9	#10					
87.7	1 1/2		57.2	20					
80.7	1		52.9	40					
78.5	3/4		45.2	100					
73.0	1/2		39.9	200					
72.0	3/8								
67.7	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.7	17.0	4.7							
		A-4										
		S.M.-S.C.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT

LOCATION DEMPSTER HI-WAY STA. 2635

HOLE No. DEPTH 41-13'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 114 LAB SAMPLE No. 2948

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER 25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

SHEET OF

SIEVE ANALYSIS

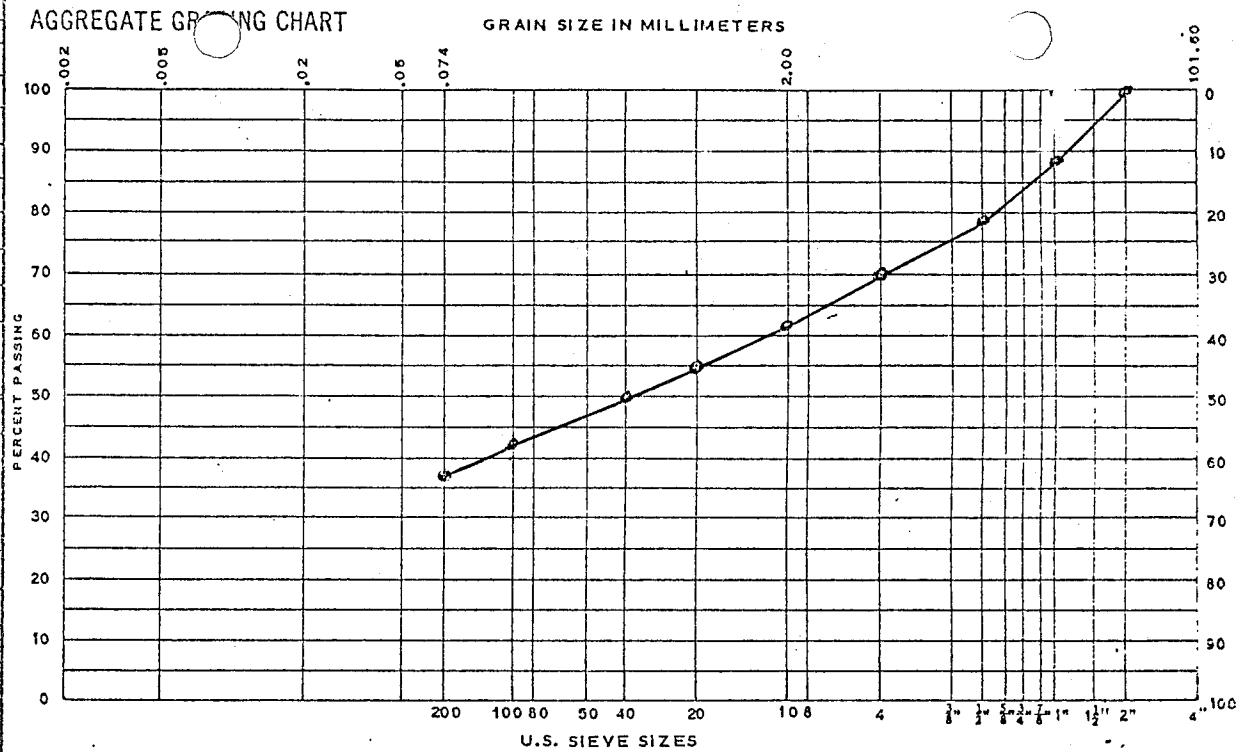
FINER BY WEIGHT	%	SAMPLE NUMBER	%
2"	100	# 4	70.2
1½"	89.6	# 10	62.0
1"	87.8	# 20	55.0
¾"	84.4	# 40	50.3
½"	79.3	# 100	42.3
⅜"	76.0	# 200	36.9

% + 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.7	17.0	4.7							
		A-4										
		S.M. - S.C.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2630

HOLE No. DEPTH 3' to 6'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 115 LAB SAMPLE No. 2949

D. P. W. WHITEHORSE - SOILS LAB J. M.

30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

673 A

SHEET OF

SIEVE ANALYSIS

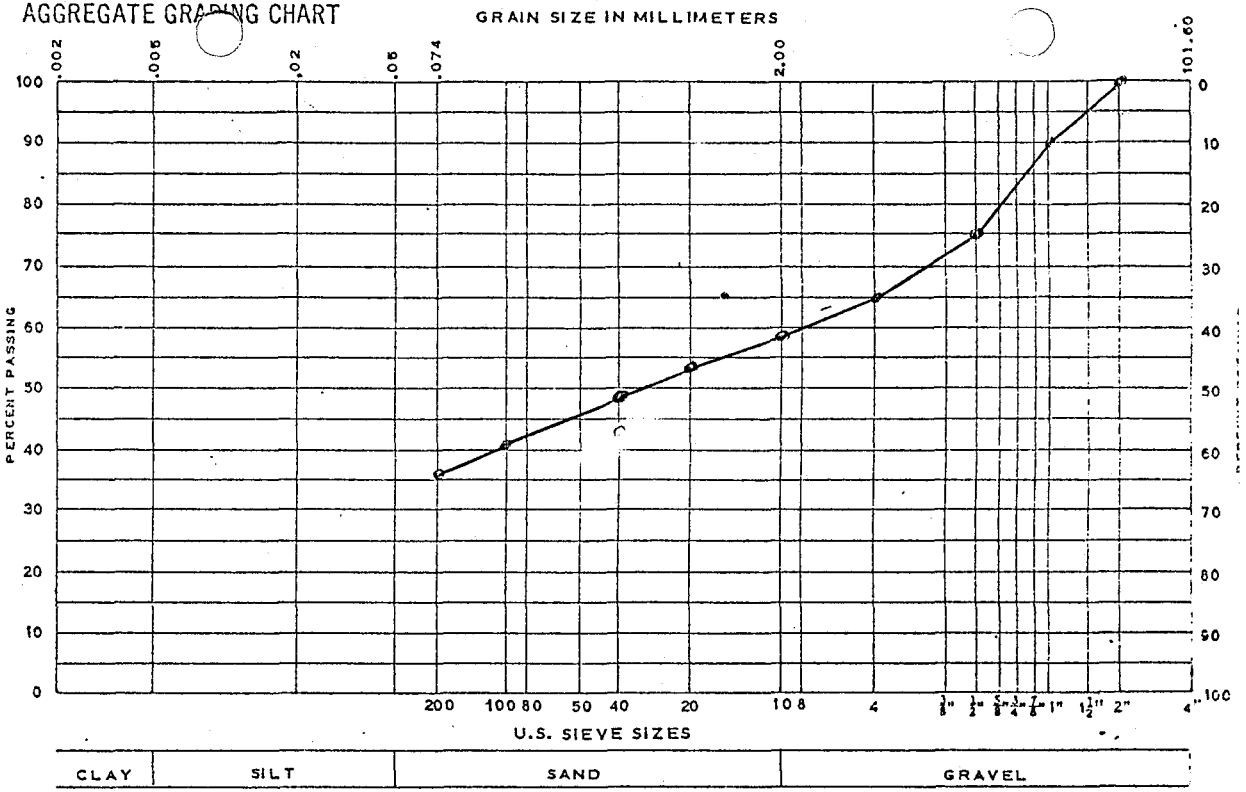
SAMPLE NUMBER

FINER BY WEIGHT	%			%
2 "	100		# 4	65.6
1½ "	97.1		# 10	59.4
1 "	89.8		# 20	53.8
¾ "	81.9		# 40	49.3
½ "	75.2		# 100	41.5
⅜ "	72.6		# 200	36.2
+ 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BS.G	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.7	17.0	4.7							
		A-4										
		S.M. - S.C.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2625

HOLE No. DEPTH 3' to 8'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 116 LAB SAMPLE No. 2950

D. P. W. WHITEHORSE - SOILS LAB J. M.

30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

673 A

SHEET OF

SIEVE ANALYSIS

SAMPLE NUMBER

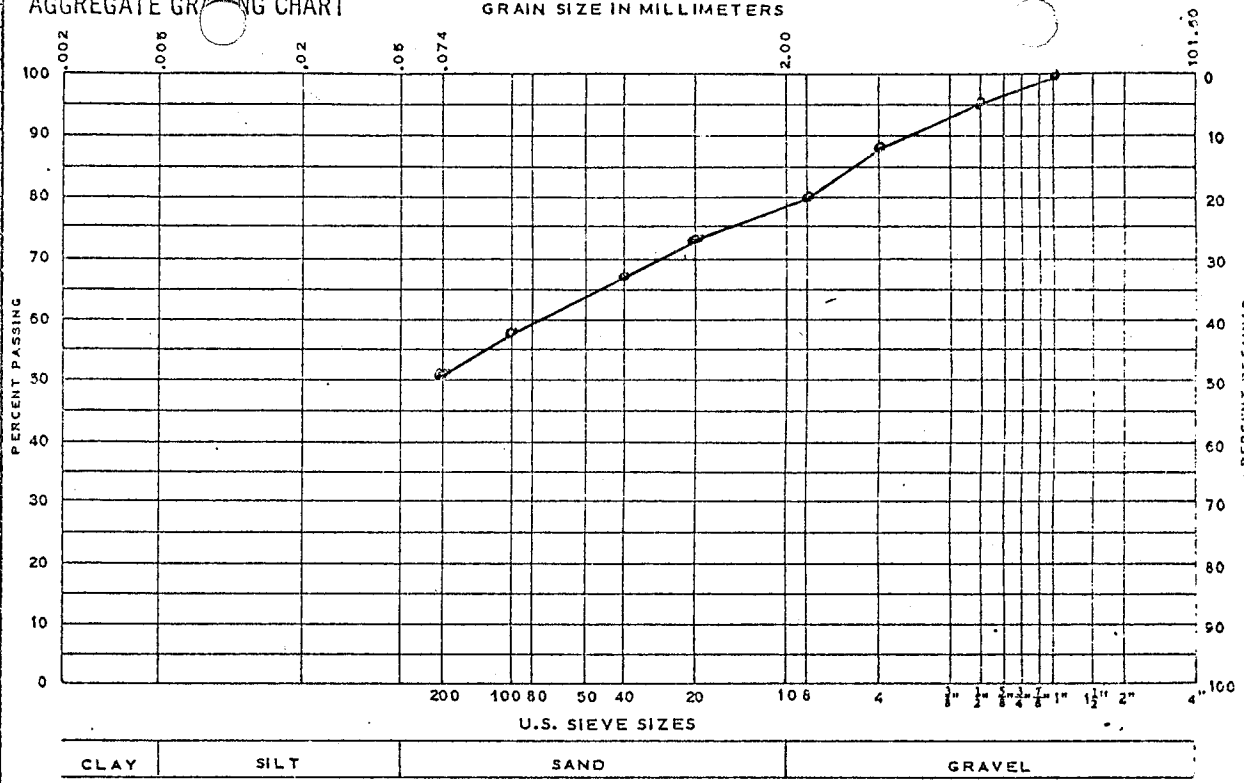
FINER BY WEIGHT	%			%
1"	100		# 4	87.8
¾"	97.9		# 10	80.8
½"	95.7		# 20	73.2
⅜"	94.2		# 40	67.7
			# 100	58.1
			# 200	51.3

+ 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.9	18.9	4.0							
		A-4										
		M.L.										
		SILT-SAND MIXTURE WITH SLIGHT PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2625

HOLE No. DEPTH 8' to 10'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 117 LAB SAMPLE No. 2951

D. P. W. WHITEHORSE - SOILS LAB J. M.

30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

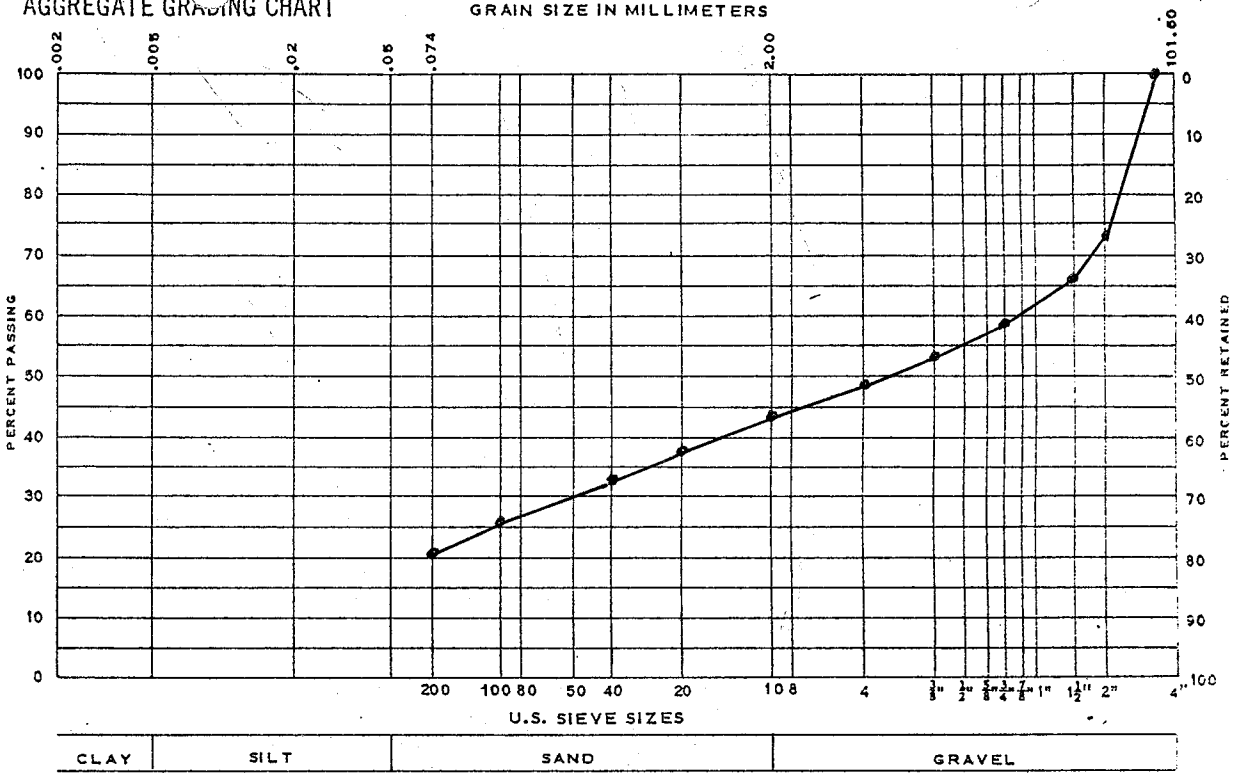
SIEVE ANALYSIS

% FINER BY WEIGHT	SAMPLE NUMBER									
	%			%						
3"	100		# 4	49.4						
2"	73.4		# 10	43.9						
1½"	66.2		# 20	38.3						
1 "	63.6		# 40	33.5						
¾"	59.3		# 100	26.1						
½"	56.1		# 200	21.3						
⅜"	53.9									
% + 4"										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.8	18.4	3.4							
		A-1-b										
		G.W.										
		FAIR TO WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

DEMPSTER HIGHWAY

N STA. 2620

O. DEPTH 2' to 10'

LE TYPE DATE SAMPLED JUNE 69

D SAMPLE No. 118 LAB SAMPLE No. 2952

D. P. W. WHITEHORSE - SOILS LAB J.M.

30 - 3 - 71

TESTING ENGINEER — DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER — DATE

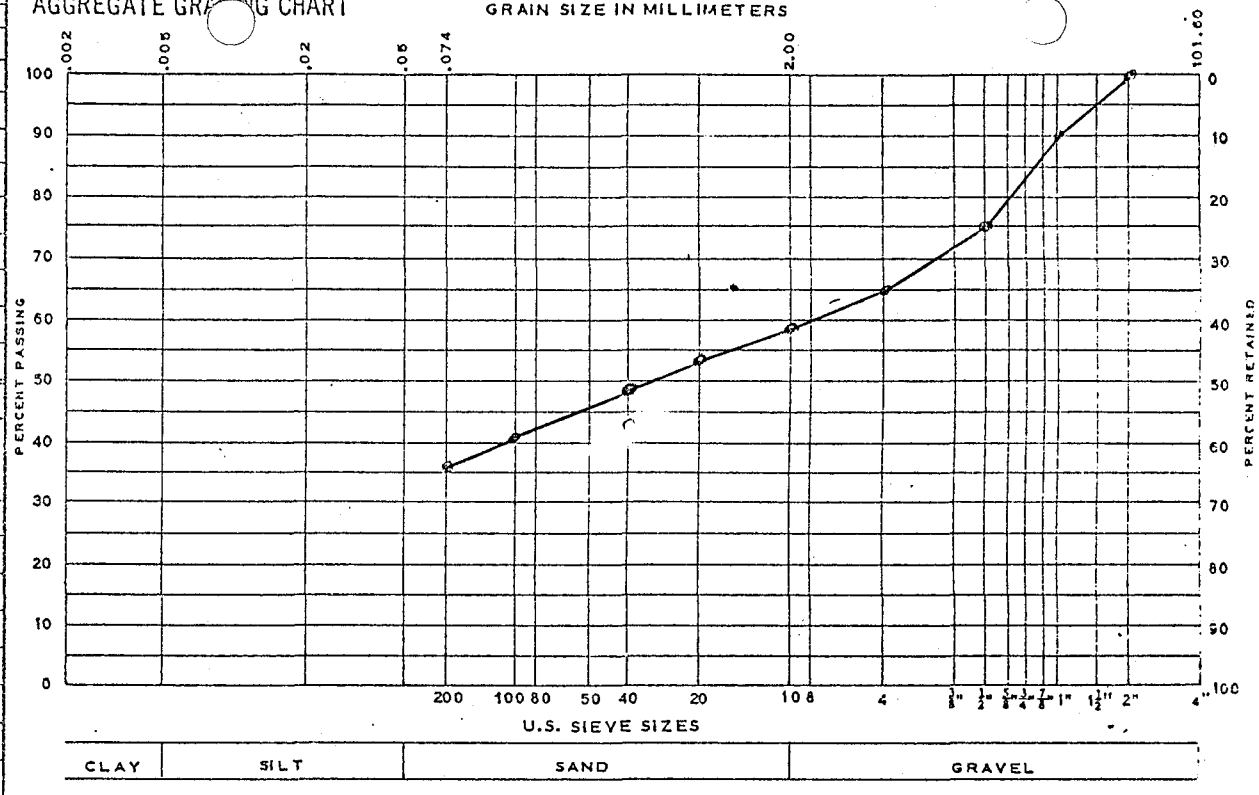
SHEET OF

FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER			
	%			%
2 "	100		# 4	65.6
½ "	92.1		# 10	59.4
1 "	84.8		# 20	53.8
¾ "	81.9		# 40	49.3
½ "	75.2		# 100	41.5
⅜ "	72.6		# 200	36.2
+ 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.7	17.0	4.7							
		A-4										
		S.M. - S.C.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2615

HOLE No. DEPTH 2' to 6'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 119 LAB SAMPLE No. 2953

D. P. W. WHITEHORSE - SOILS LAB J. M.

30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

573 A

AGGREGATE DEPOSIT REPORT (Cont'd)

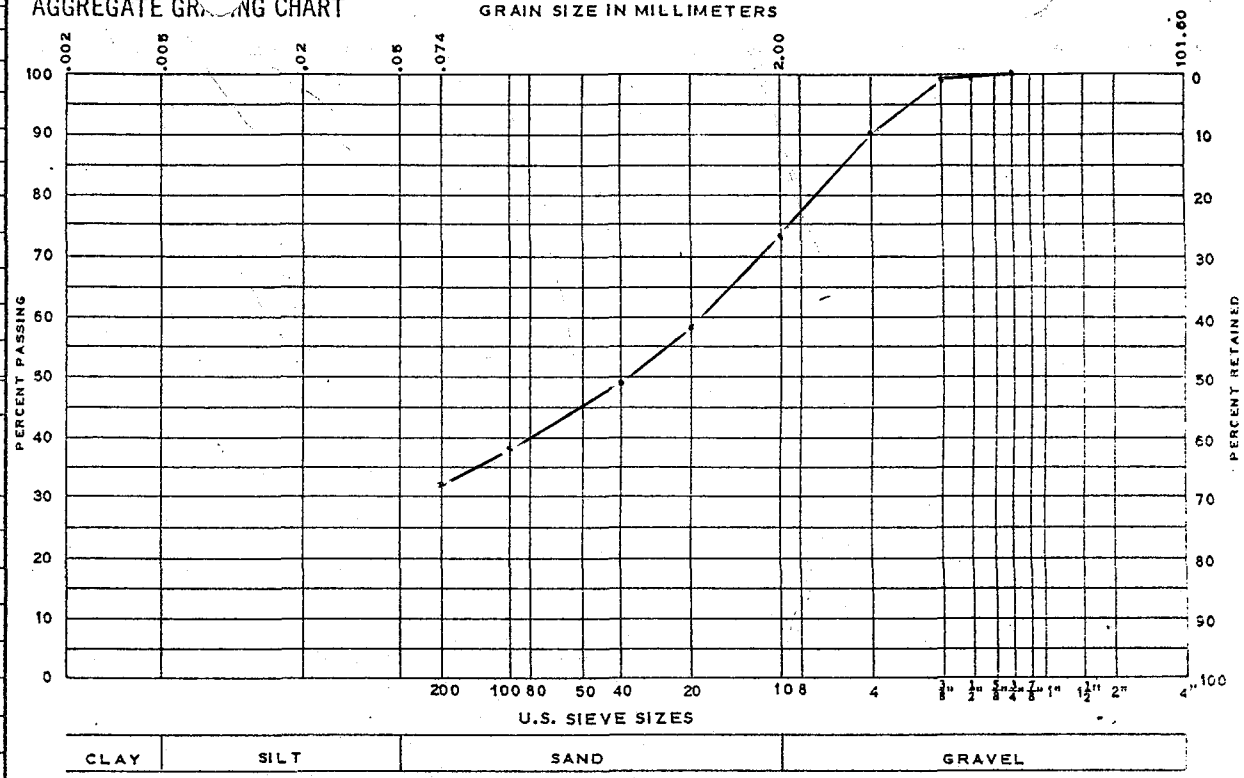
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	3/4"		73.7	#10					
99.6	1/2		58.6	20					
98.9	3/8		49.3	40					
90.4	#4		38.2	100					
			31.9	200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		21.7 17.0 4.7										
		A-2-4										
		S.M.- S.C.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA. 2610

HOLE No. DEPTH 2'-10'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 120 LAB SAMPLE No. 2954

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER 25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

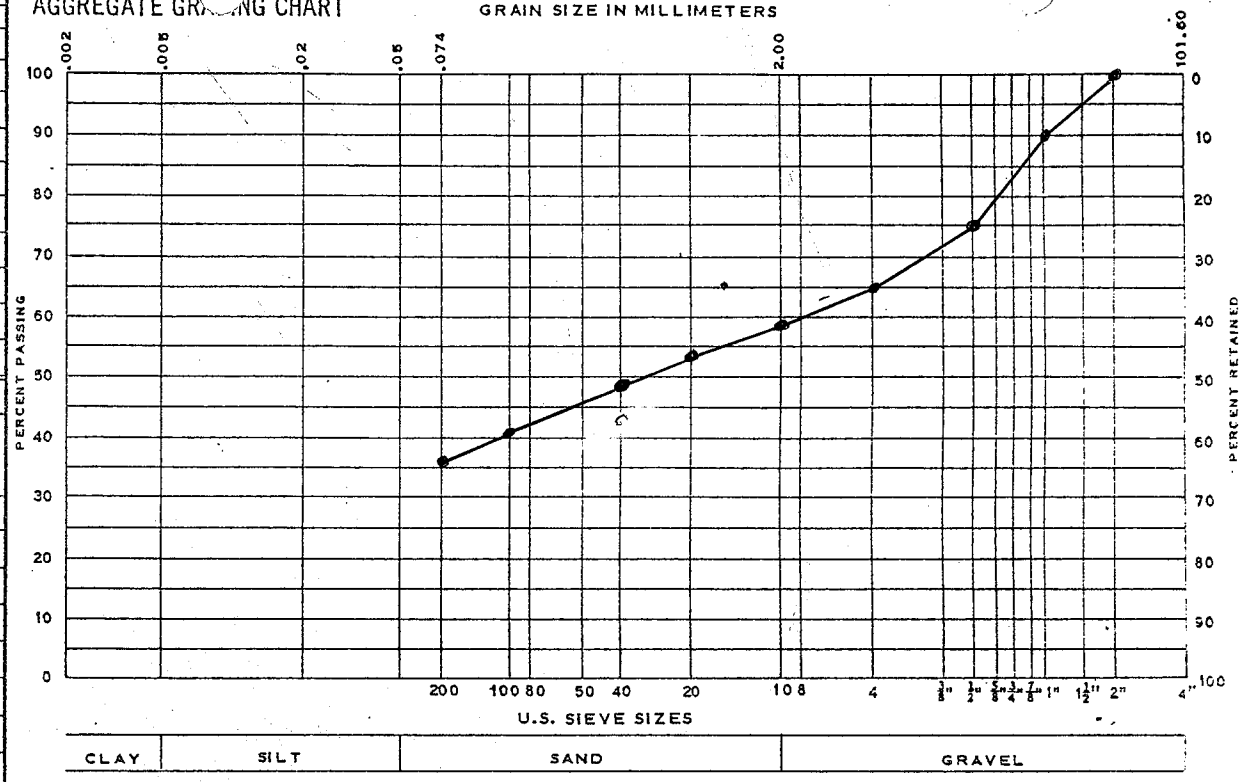
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER									
	%			%						
2 "	100		# 4	65.6						
1½ "	97.1		# 10	59.4						
1 "	89.8		# 20	53.8						
¾ "	81.9		# 40	49.3						
½ "	75.2		# 100	41.5						
⅜ "	72.6		# 200	36.2						
% + 4"										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.7	17.0	4.7							
		A-4										
		S.M. – S.C.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2605

HOLE No. DEPTH 4' to 10'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 121 LAB SAMPLE No. 2955

D. P. W. WHITEHORSE - SOILS LAB

J. M.

30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

SHEET OF

SIEVE ANALYSIS

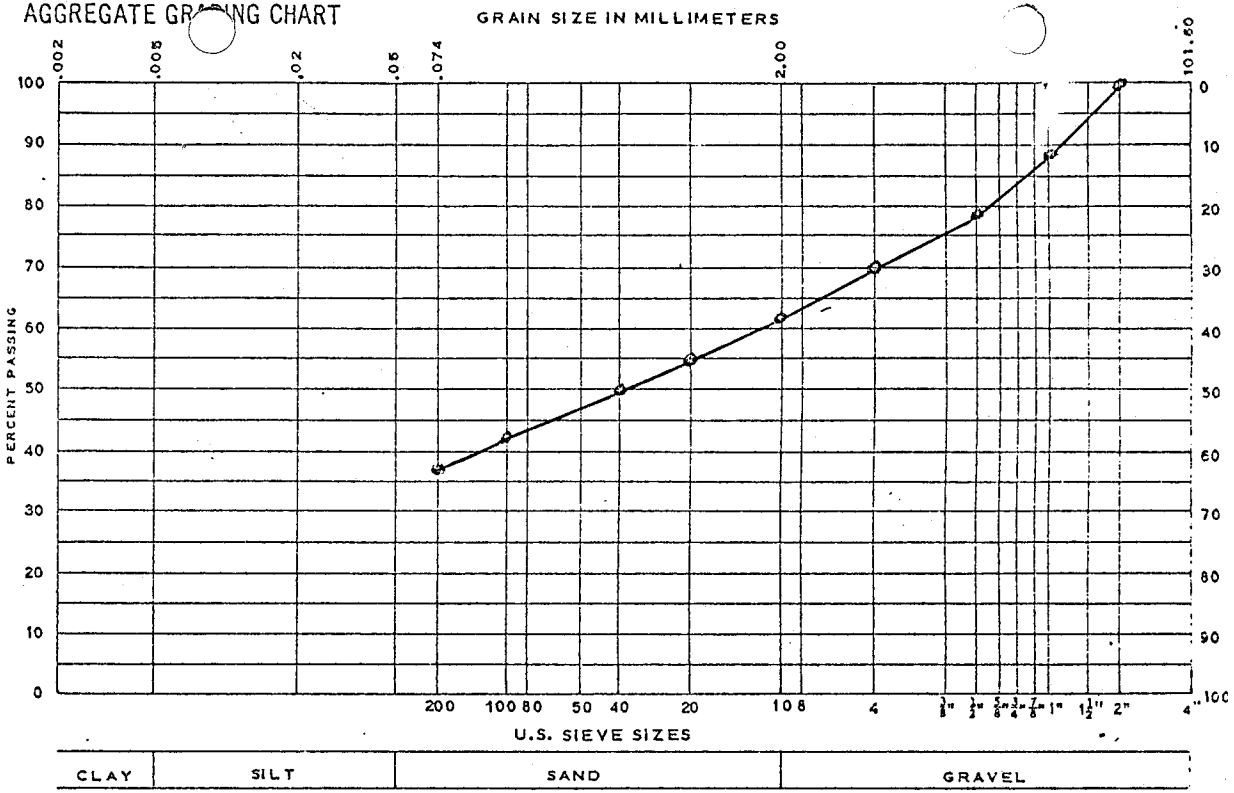
SAMPLE NUMBER

FINER BY WEIGHT	%		%
2"	100	# 4	70.2
1½"	89.6	# 10	62.0
1"	87.8	# 20	55.0
¾"	84.4	# 40	50.3
½"	79.3	# 100	42.3
⅜"	76.0	# 200	36.9
% + 4"			

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.7		17.0		4.7					
		A-4										
		S.M. - S.C.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA.

HOLE No. DEPTH

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. LAB SAMPLE No.

D. P. W. WHITEHORSE - SOILS LAB J. M.

30 - 3 - 71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

2956 STA. 2600 # 122 3' to 10'

2957 STA. 2595 # 123 4' to 10'

2958 STA. 2590 # 124 3' to 10'

MATERIALS ENGINEER DATE

D 673 A

SHEET OF

SIEVE ANALYSIS

FINER BY WEIGHT	SAMPLE NUMBER			
	%			%
1"	100		# 4	87.8
3/4"	92.9		# 10	80.8
1/2"	95.7		# 20	73.2
3/8"	94.2		# 40	67.7
			# 100	58.1
			# 200	51.3
+ 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.9	18.9	4.0							
		A-4										
		M.L.										
		SILT - SAND MIXTURE WITH SLIGHT PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .05 .074 2.00 101.60

PERCENT PASSING

100 90 80 70 60 50 40 30 20 10 0

0 10 20 30 40 50 60 70 80 90 100

200 100 80 50 40 20 10 8 4 3/8" 1/2" 3/4" 1" 1 1/2" 2" 4"

U.S. SIEVE SIZES

CLAY | SILT | SAND | GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2585

HOLE No. DEPTH 3' to 10'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 125 LAB SAMPLE No. 2959

D. P. W. WHITEHORSE - SOILS LAB J. M.

30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

673 A

SHEET OF

SIEVE ANALYSIS

SAMPLE NUMBER

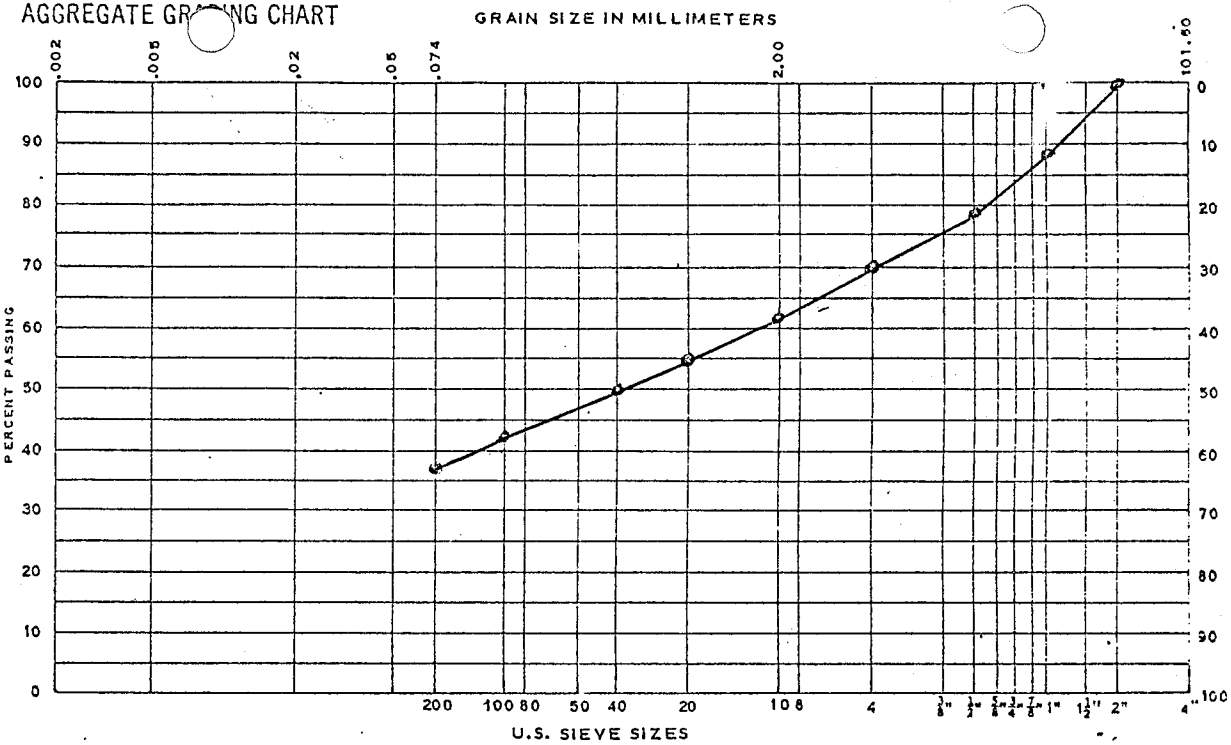
FINER BY WEIGHT	%			%
2 "	100		# 4	70.2
1½ "	89.6		# 10	62.0
1 "	87.8		# 20	55.0
¾ "	84.4		# 40	50.3
½ "	79.3		# 100	42.3
⅜ "	76.0		# 200	36.9

% + 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.7		17.0		4.7					
		A-4										
		S.M. - S.C.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA.

HOLE No. DEPTH

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. LAB SAMPLE No.

D. P. W. WHITEHORSE - SOILS LAB

J. M.

TESTING ENGINEER

30 - 3 - 71

DATE

MATERIALS ENGINEER'S REMARKS

2960	STA	2580	# 126	5'	to 10'
2961		2575	127	4'	10'
2962		2570	128	3'	10'
2963		2565	129	0'	10'
2964		2560	130	1'	15'
2965		2555	131	1'	4'
2966		2555	132	4'	15'

MATERIALS ENGINEER

DATE

D 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

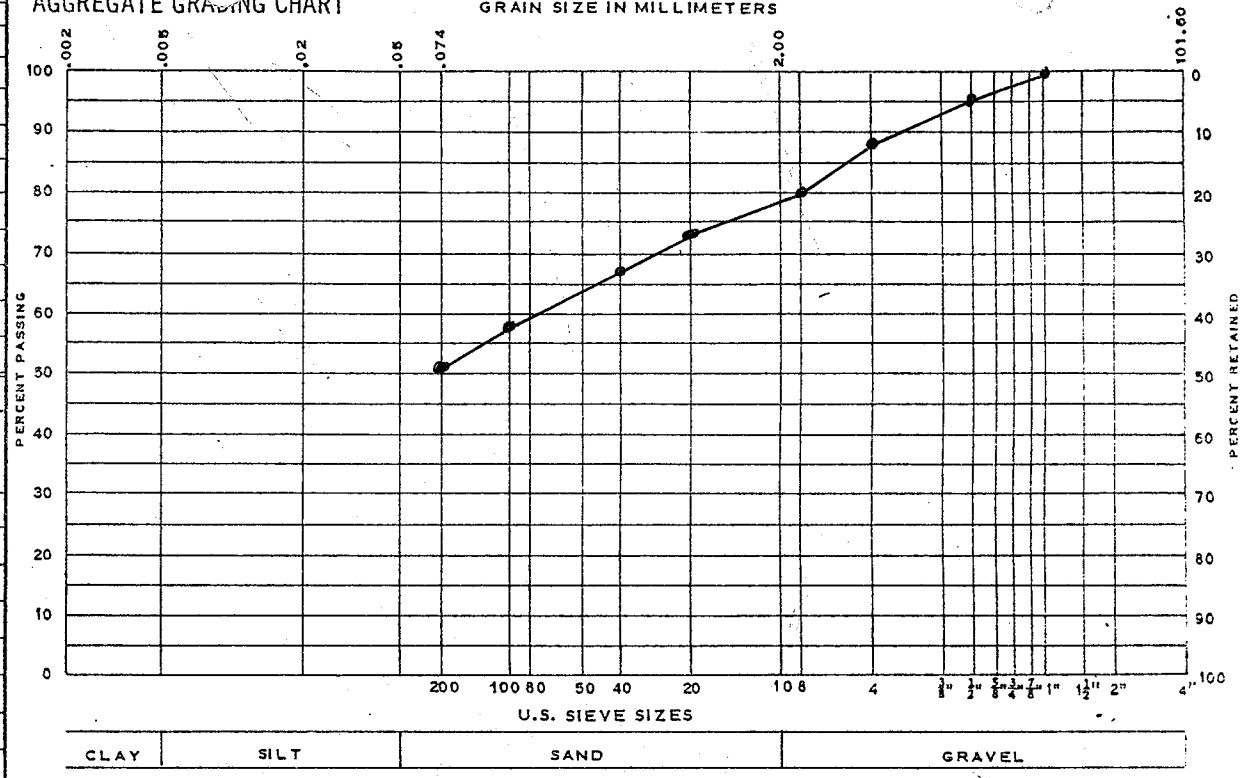
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	%			%					
1"	100		# 4	87.8					
3/4"	97.9		# 10	80.8					
1/2"	95.7		# 20	73.2					
3/8"	94.2		# 40	67.7					
			# 100	58.1					
			# 200	57.3					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.9	18.9	4.0							
		A-4										
		M.L.										
		SILT - SAND MIXTURE WITH SLIGHT PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2550

HOLE No. ..... DEPTH 1' + 0 10'

SAMPLE TYPE ..... DATE SAMPLED JUNE 69

FIELD SAMPLE No. 133 LAB SAMPLE No. 2967

D. P. W. WHITEHORSE - SOILS LAB J. M.

30-3-71

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

SHEET OF

SIEVE ANALYSIS

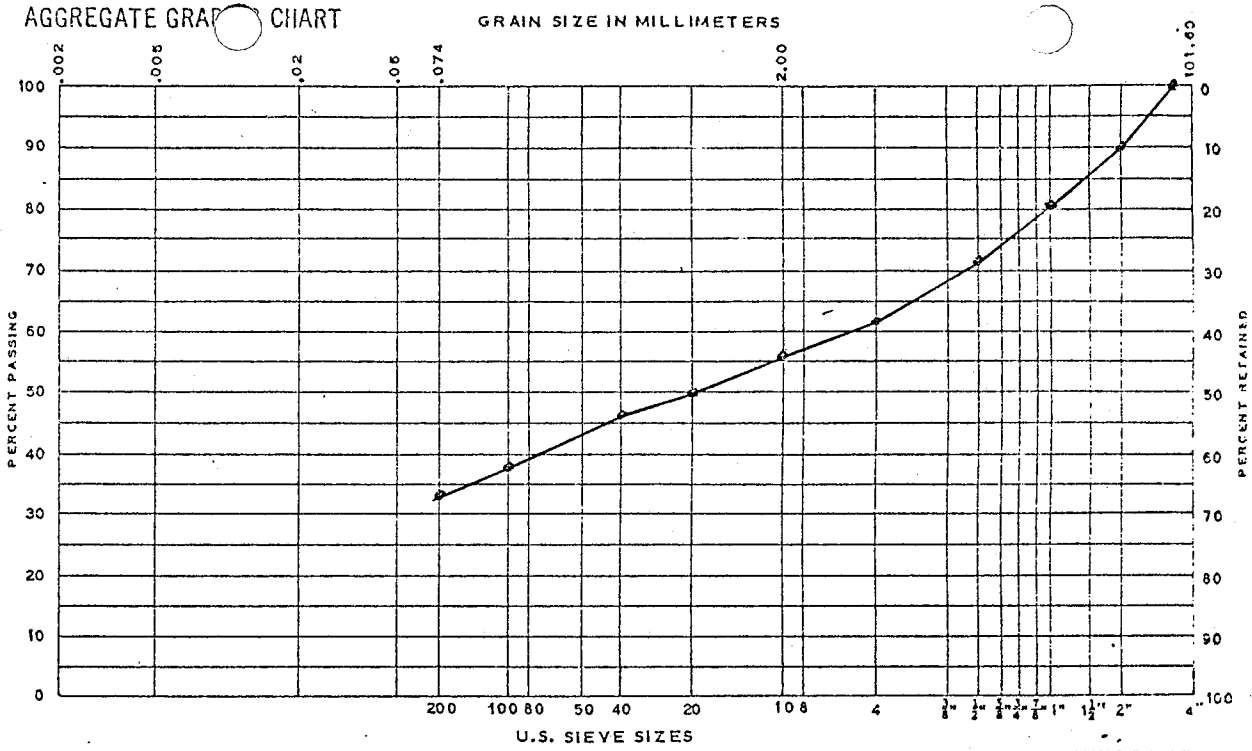
SAMPLE NUMBER

NER Y GHT	%		%
"	100	# 4	61.5
"	90.2	# 10	55.7
"	86.9	# 20	50.1
"	81.3	# 40	46.0
"	77.1	# 100	38.4
"	72.0	# 200	33.0
2"	68.8		
4"			

LE D.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.7	17.0		4.7						
		A-2-4										
		S.M.-S.C.										
		SILTY SAND										

AGGREGATE GRADATION CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION DEMPSTER DEPTH 1' to 9'

HOLE No. STA. 2545' DATE SAMPLED JUNE 69

SAMPLE TYPE 134 LAB SAMPLE No. 2968

FIELD SAMPLE No. D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

73 A

SHEET OF

SIEVE ANALYSIS

SAMPLE NUMBER

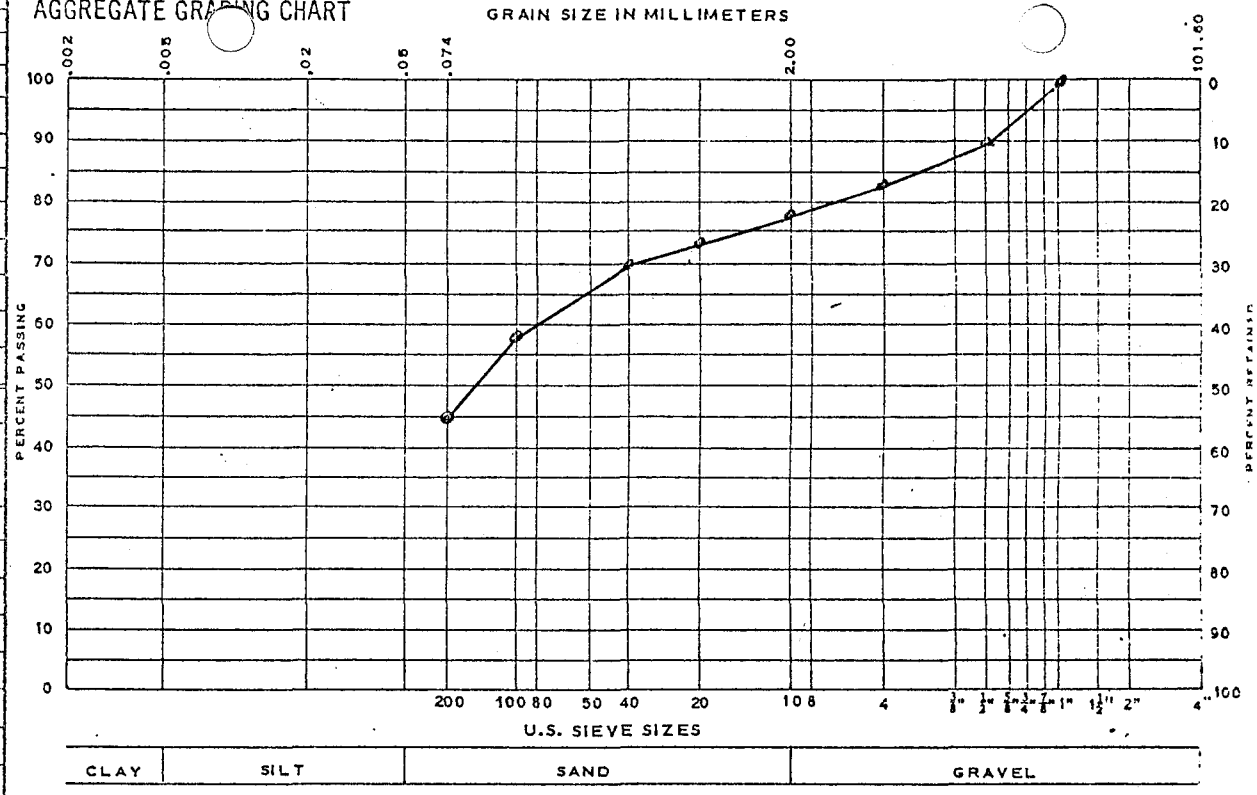
FINER BY WEIGHT	%			%
1 "	100		# 4	83.2
¾ "	93.2		# 10	78.4
½ "	90.3		# 20	73.6
⅜ "	87.2		# 40	70.2
			# 100	58.0
			# 200	44.6

+ 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.9	18.9	4.0							
		A-4										
		M.L.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2540

HOLE No. DEPTH 3' to 10'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 135 LAB SAMPLE No. 2969

D. P. W. WHITEHORSE SOILS LAB.

TESTING ENGINEER D. M DATE 30-3-71

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

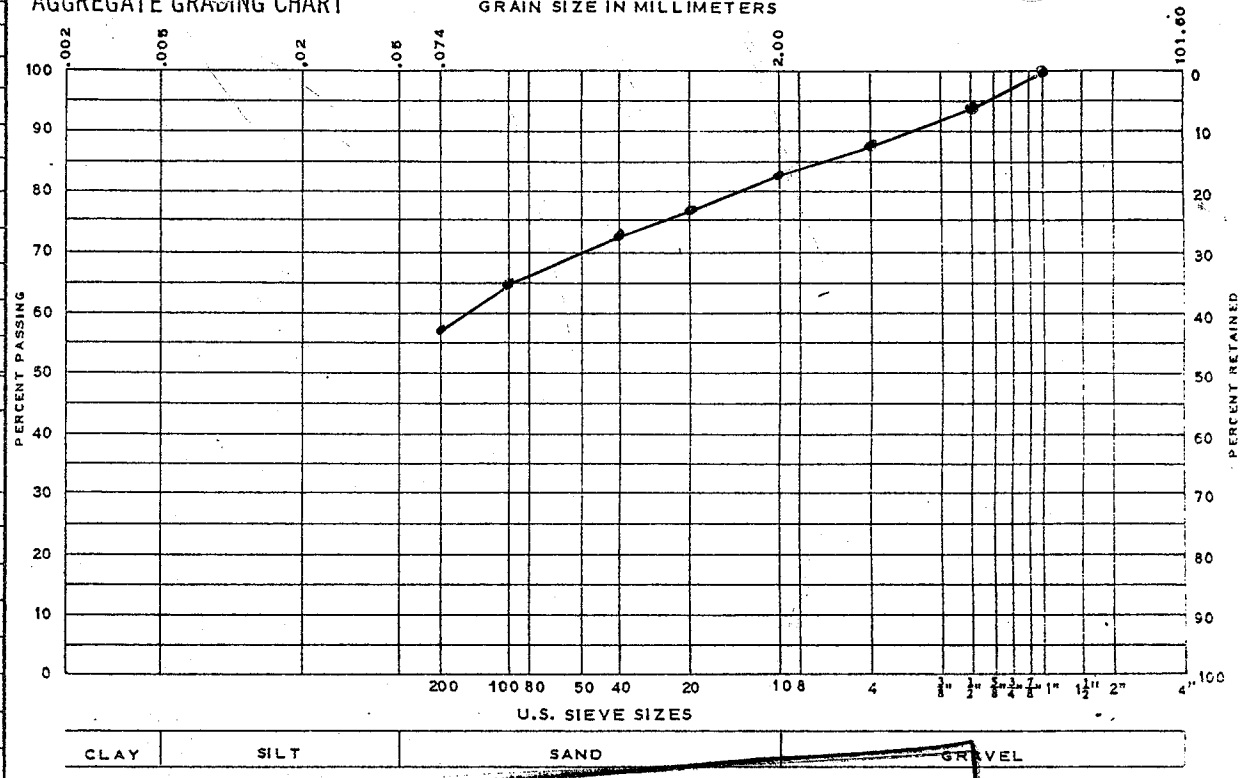
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	%			%					
1"	100		# 4	87.9					
3/4"	98.5		# 10	82.7					
1/2"	94.3		# 20	76.9					
3/8"	91.6		# 40	72.7					
			# 100	64.8					
			# 200	57.4					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.9	18.9			4.0					
		A-4										
		M.L.										
		SAND - SILT MIXTURE WITH SLIGHT PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT
LOCATION DEMPSTER HIGHWAY
HOLE No. DEPTH 4' to 10'
SAMPLE TYPE STA. 2535 DATE SAMPLED JUNE 69
FIELD SAMPLE No. 136 LAB SAMPLE No. 2970
D. P. W. WHITEHORSE - SOILS LAB

30-3-71

TESTING ENGINEER — DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER — DATE

SHEET OF

SIEVE ANALYSIS

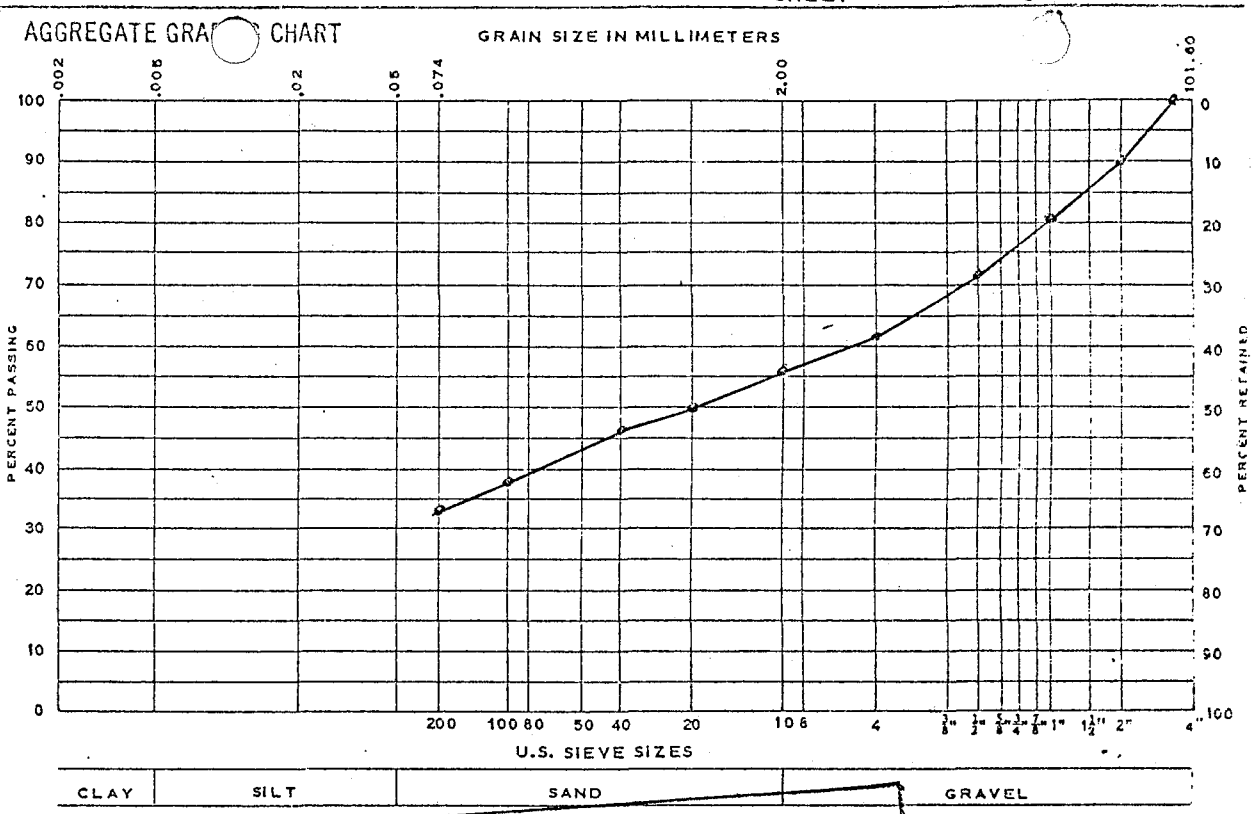
SAMPLE NUMBER

NER Y GHT	%			%
"	100		# 4	61.5
"	90.2		# 10	55.7
"	86.9		# 20	50.1
"	81.3		# 40	46.0
"	77.1		# 100	38.4
"	72.0		# 200	33.0
"	68.8			
4"				

LE O.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.7	17.0		47						
		A-2-4										
		S.M.-S.C.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION DEMPSTER HIGHWAY DEPTH 3' to 10'

HOLE No. STA. 2530 DATE SAMPLED JUNE 69

SAMPLE TYPE FIELD SAMPLE No. 137 LAB SAMPLE No. 2971

D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

73 A

SHEET OF

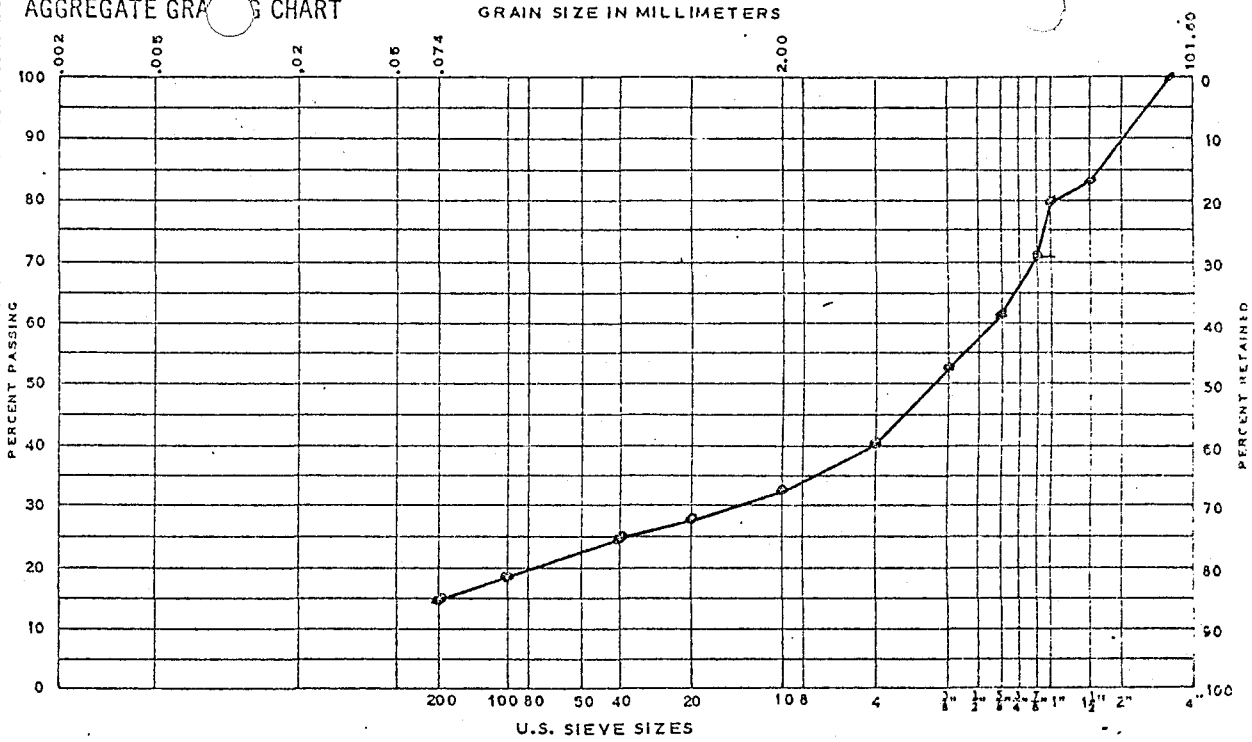
SIEVE ANALYSIS

INER BY GHT	%	SAMPLE NUMBER	%
3"	100	# 4	40.5
1½"	93.5	# 10	33.7
1"	80.6	# 20	28.3
¾"	71.4	# 40	24.7
½"	61.1	# 100	19.2
⅜"	53.6	# 200	15.2
+ 4"			

PLE O.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			18.9	17.6			1.3					
		A-1-b										
		G.W.										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA 25-25

HOLE No. DEPTH 3' to 6'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 138 LAB SAMPLE No. 2972

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER 29-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

73 A

SHEET OF

SIEVE ANALYSIS

SAMPLE NUMBER

FINER BY WEIGHT	%		%
1 "	100	# 4	83.2
¼"	93.2	# 10	78.4
½ "	90.3	# 20	73.6
⅜"	87.2	# 40	70.2
		# 100	58.0
		# 200	44.6
+ 4"			

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.9	18.9	4.0							
		A-4										
		M.L.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .05 .074 2.00 101.60

PERCENT PASSING

100 90 80 70 60 50 40 30 20 10 0

0 10 20 30 40 50 60 70 80 90 100

PERCENT RETAINED

200 100 80 50 40 20 10 8 4 ⅜" ½" ⅝" ¾" 1" 1½" 2" 4"

U.S. SIEVE SIZES

CLAY	SILT	SAND	GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 7 2525

HOLE No. DEPTH 6' to 10'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 139 LAB SAMPLE No. 2973

D. P. W. WHITEHORSE SOILS LAB.

TESTING ENGINEER J. M. DATE 30-3-71

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

673 A

SHEET OF

SIEVE ANALYSIS

SAMPLE NUMBER

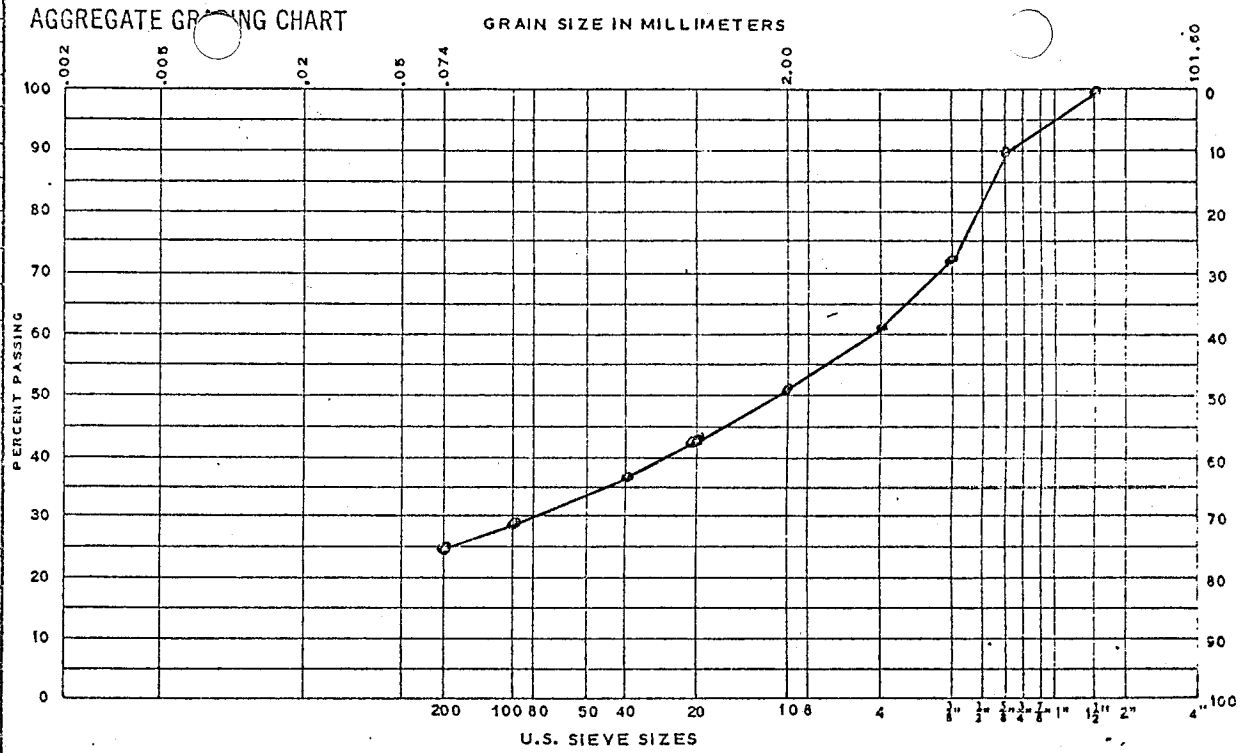
FINER BY WEIGHT	%			%
1½"	100		# 4	60.8
1 "	96.2		# 10	51.6
¾ "	90.1		# 20	43.2
½ "	80.3		# 40	36.9
⅜ "	71.8		# 100	29.1
			# 200	24.9

% + 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.8	18.4	3.4							
		A-1-b										
		S.M.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT

LOCATION DEMPSTER HIGHWAY

HOLE No. DEPTH 4' to 8'

SAMPLE TYPE STA. 2520 DATE SAMPLED JUNE 69

FIELD SAMPLE No. 140 LAB SAMPLE No. 2974

D. P. W. WHITEHORSE - SOILS LAB J. M.

30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

673 A

SHEET OF

SIEVE ANALYSIS

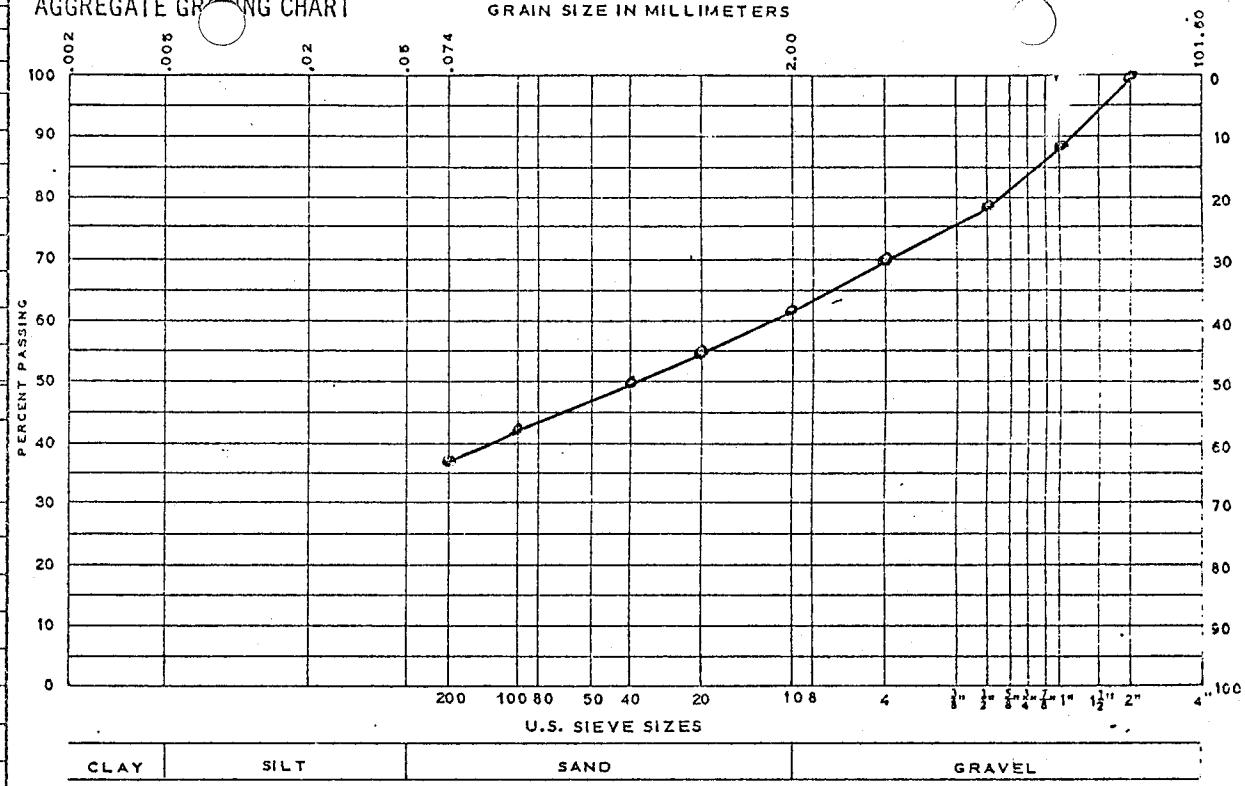
SAMPLE NUMBER

FINER BY WEIGHT	%			%
2 "	100		# 4	70.2
1½ "	89.6		# 10	62.0
1 "	87.8		# 20	55.0
¾ "	84.4		# 40	50.3
½ "	79.3		# 100	42.3
⅜ "	76.0		# 200	36.9
% + 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSHC	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.7	17.0	4.7							
		A-4										
		S.M. - S.C.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2515'

HOLE No. DEPTH 6' to 10'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 141 LAB SAMPLE No. 2975

D. P. W. WHITEHORSE - SOILS LAB

J. M.

TESTING ENGINEER

30-3-71

DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

1673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

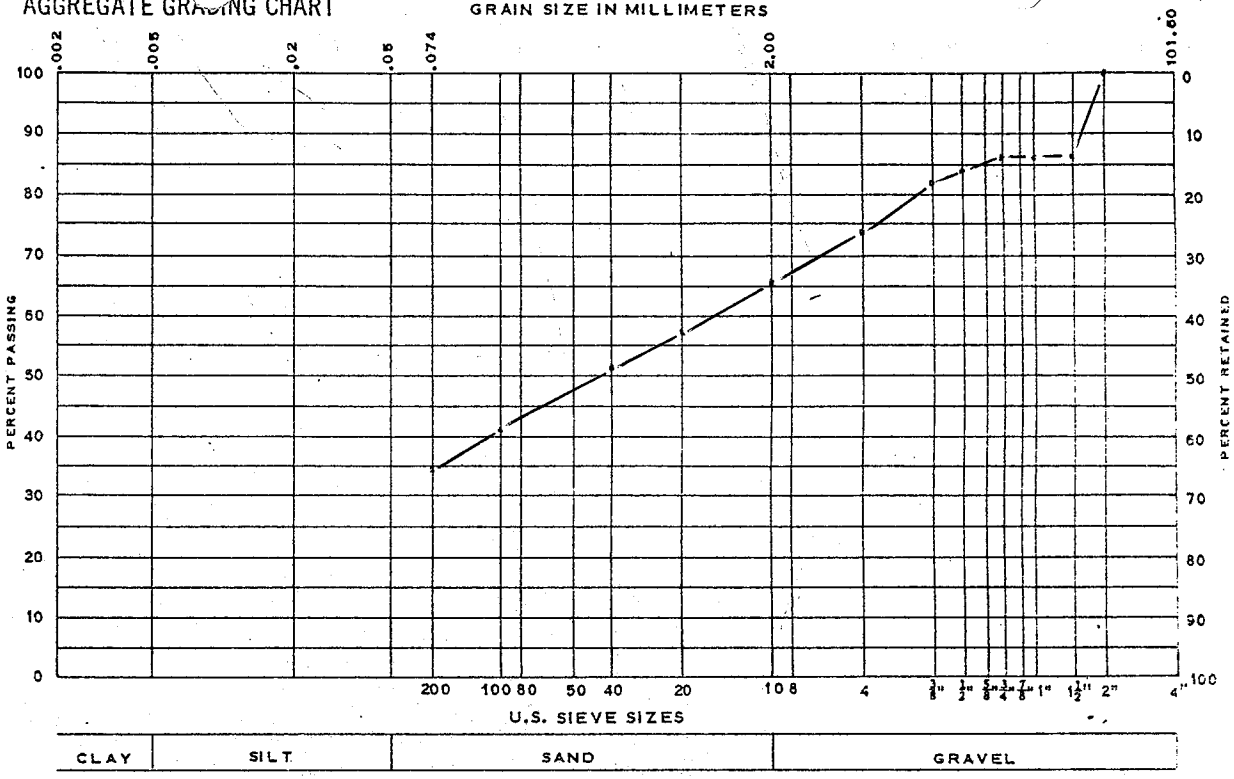
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	2"		65.6	#10					
85.9	1 1/2		57.6	20					
85.9	1		51.2	40					
85.9	3/4		41.1	100					
84.5	1/2		34.6	200					
82.0	3/8								
74.2	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.7	17.0	4.7							
		A-2-4										
		S.M.-S.C.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION

HOLE No. DEPTH

SAMPLE TYPE DATE SAMPLED

FIELD SAMPLE No. LAB SAMPLE No. 2976-77-78

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER 25-3-77 DATE

MATERIALS ENGINEER'S REMARKS

2976 6'-10' STA. 2510 SAMPLE # 142.

2977 5'-10' " 2505 " # 143

2978 5'-10' " 2500 " # 144.

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

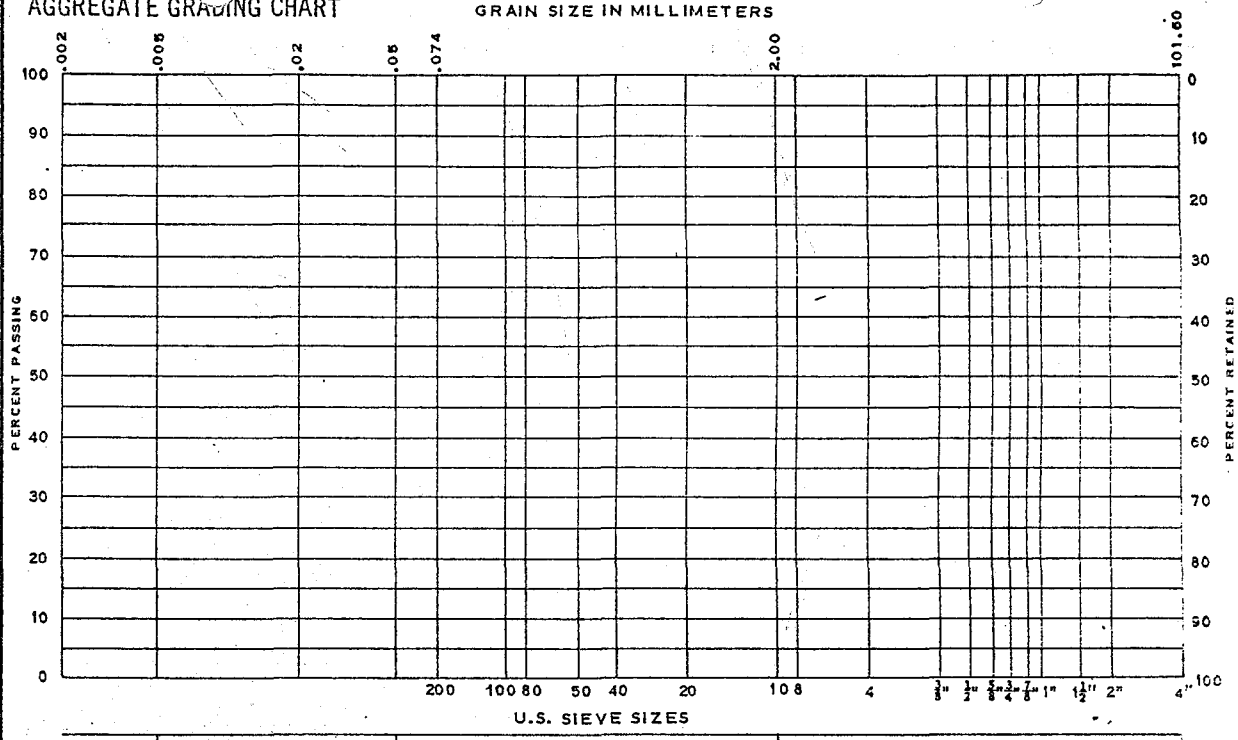
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	88.9% PASSING #200 SIEVE								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			28.6	23.4	5.2							
		A-4										
		M.L.										
		SANDY SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2495

HOLE No. DEPTH 1' to 9'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 145 LAB SAMPLE No. 2979

D. P. W. WHITEHORSE - SOILS LAB

26-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

SHEET OF

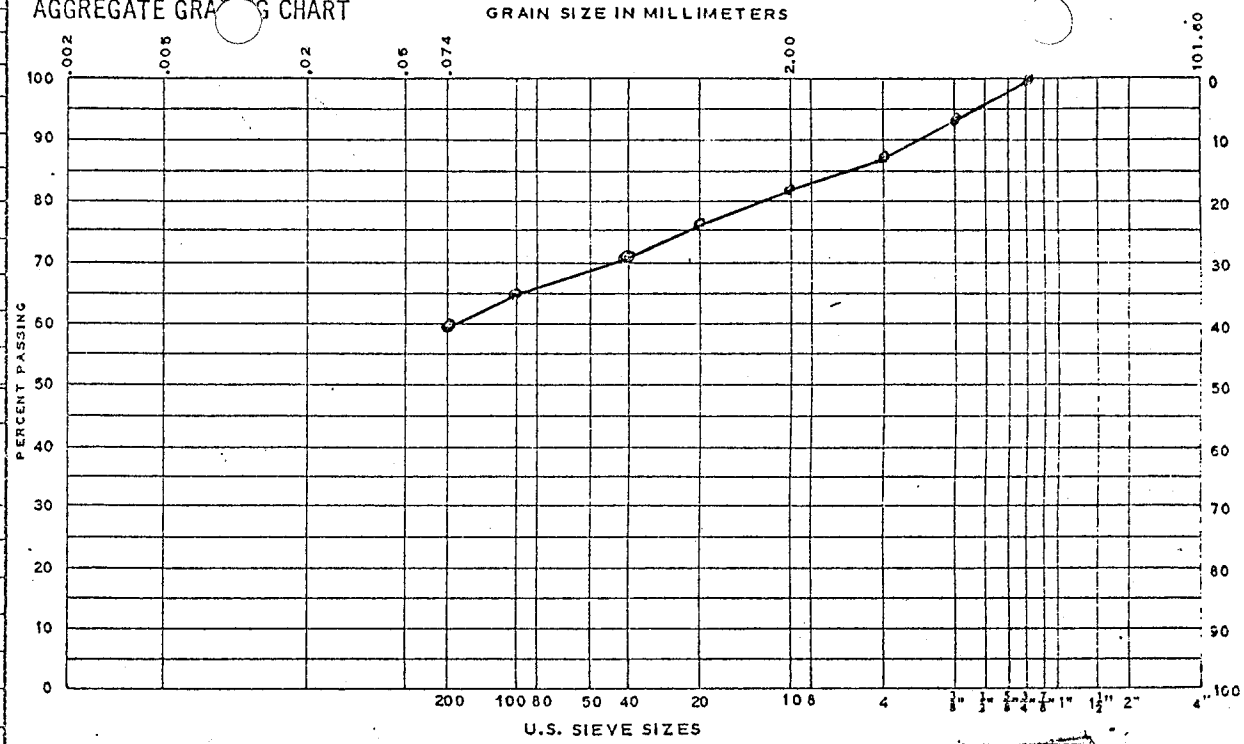
SIEVE ANALYSIS

SIEVE	SAMPLE NUMBER								
	%								
4"	100								
2"	95.9								
1"	93.1								
4	82.5								
10	82.0								
20	75.9								
40	71.2								
100	64.5								
200	59.9								
+ 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			25.2	21.1	4.1							
		A-4										
		M.L										
		SANDY SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT

LOCATION DEMPSTER HIGHWAY

HOLE No. DEPTH 2' to 10'

SAMPLE TYPE STA 2485 DATE SAMPLED JUNE 69

FIELD SAMPLE No. 146 LAB SAMPLE No. 2980

D. P. W. WHITEHORSE - SOILS LAB J.M.

30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

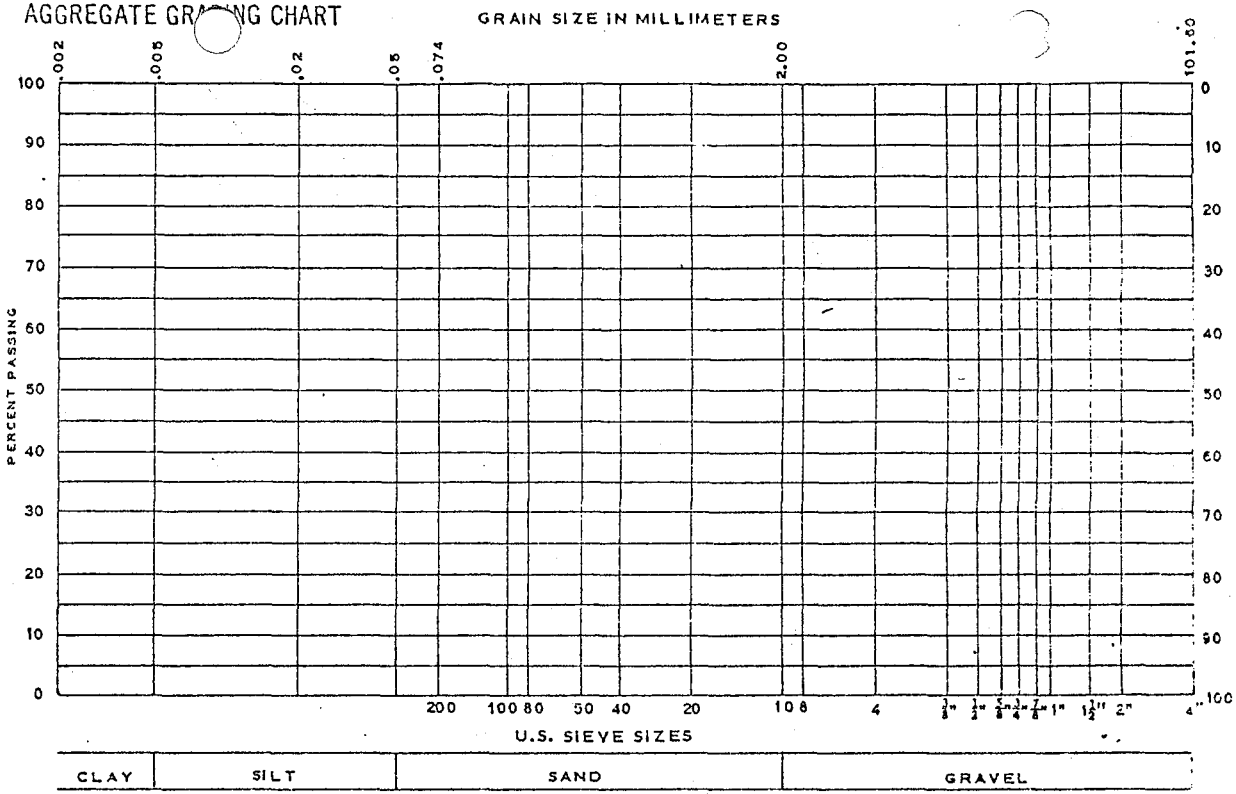
MATERIALS ENGINEER DATE

FINER BY EIGHT	SIEVE ANALYSIS / SAMPLE NUMBER								
	78.1% PASSING #200 SIEVE								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
					0.0							
		A-4										
		M.L.										
		SILT - FINE SAND MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2480

HOLE No. ..... DEPTH 2' + 0 15'

SAMPLE TYPE ..... DATE SAMPLED JUNE 69

FIELD SAMPLE No. 147 LAB SAMPLE No. 2981

D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

D 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

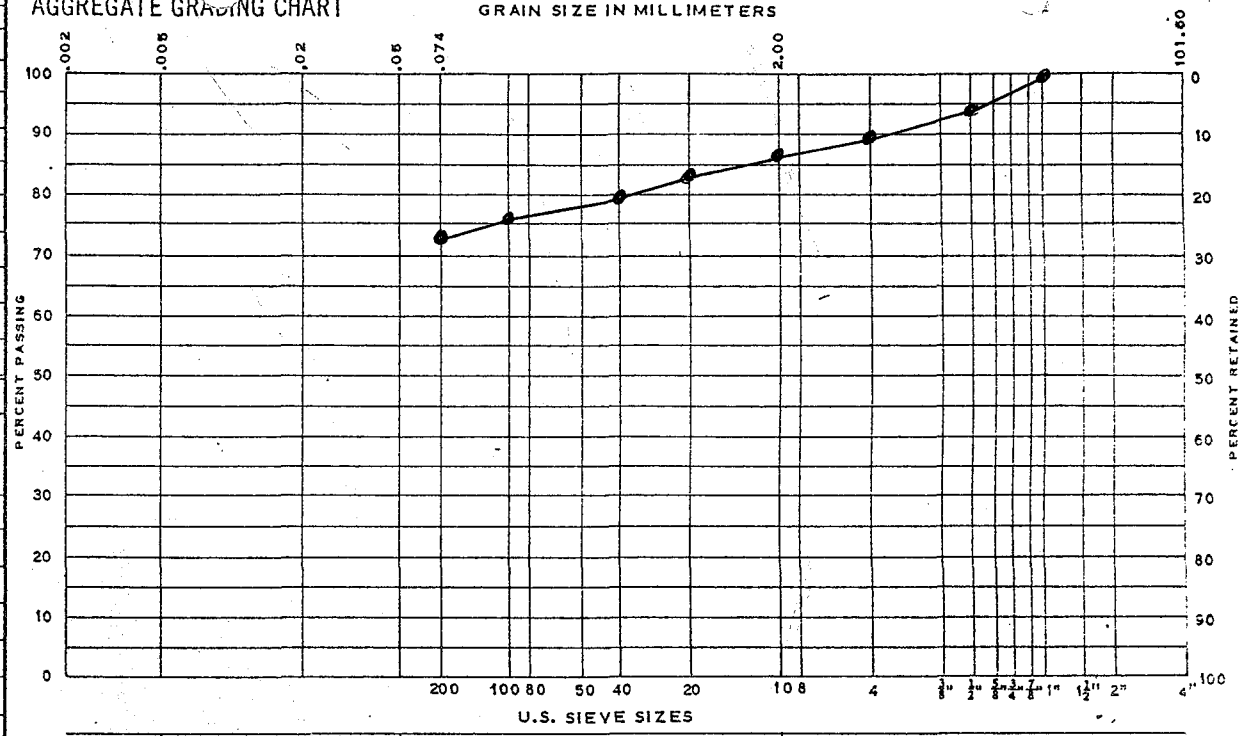
SIEVE ANALYSIS

% FINER BY WEIGHT	SAMPLE NUMBER			
	%			%
1 "	100		# 4	90.4
3/4 "	98.0		# 10	87.4
1/2 "	94.5		# 20	83.6
3/8"	93.1		# 40	80.5
			# 100	76.1
			# 200	72.8
% + 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			30.1	27.4	2.7							
		A-4										
		M.L.										
		SILT OF SLIGHT PLASTICITY WITH SAND-GRAVEL MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY
LOCATION STA. ~~2980~~ 2475
HOLE No. DEPTH 4' to 6'
SAMPLE TYPE DATE SAMPLED JUNE 69
FIELD SAMPLE No. 148 LAB SAMPLE No. 2982
D. P. W. WHITEHORSE - SOILS LAB

30-3-71

TESTING ENGINEER — DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER — DATE

SHEET OF

SIEVE ANALYSIS

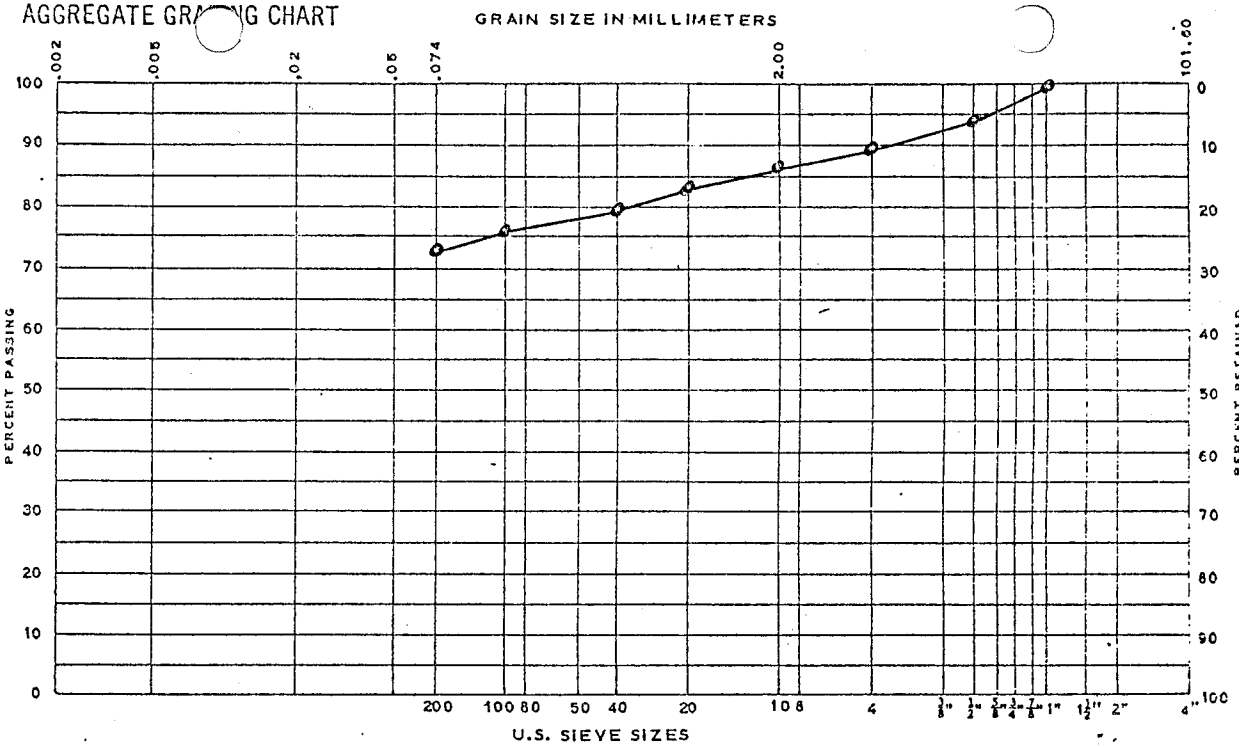
SAMPLE NUMBER

FINER BY WEIGHT	%		%
1 "	100	# 4	90.4
¾ "	98.0	# 10	87.4
½ "	94.5	# 20	83.6
⅜ "	93.1	# 40	80.5
		# 100	76.1
		# 200	72.8
+ 4"			

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			30.1	27.4	2.7							
		A-4										
		M.L.										
		SILT OF SLIGHT PLASTICITY WITH SAND-GRAVEL MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY
LOCATION STA. 2475
HOLE No. DEPTH 6' to 10'
SAMPLE TYPE DATE SAMPLED JUNE 69
FIELD SAMPLE No. 149 LAB SAMPLE No. 2983
D. P. W. WHITEHORSE - SOILS LAB

D.M.
30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

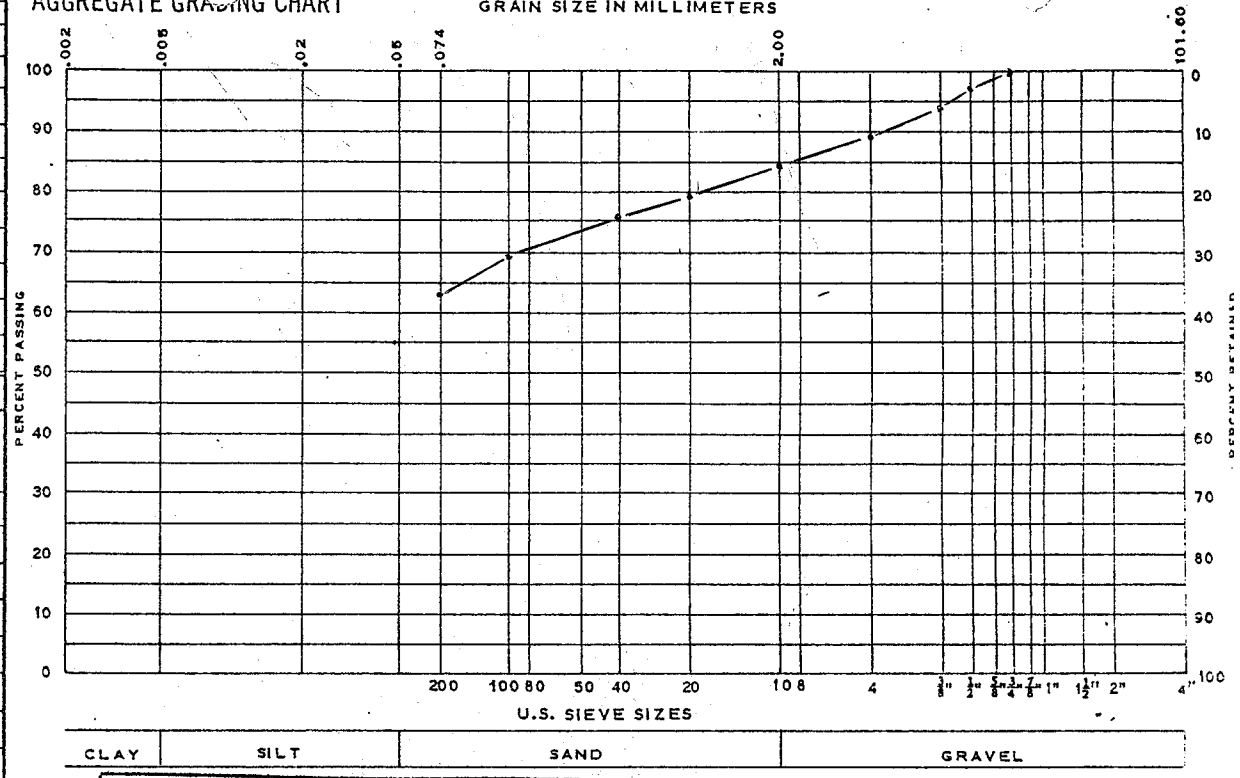
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	3/4"		84.7	#10					
96.5	1/2		79.5	20					
93.9	3/8		75.6	40					
89.0	#4		68.9	100					
			63.7	200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			25.2	21.1	4.1							
		A-4										
		M.L.										
		SANDY SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER #1-WAY.

LOCATION STA. 2465.

HOLE No. ..... DEPTH 2'-10'

SAMPLE TYPE ..... DATE SAMPLED JUNE '69

FIELD SAMPLE No. 150 LAB SAMPLE No. 2984

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

SHEET OF

SIEVE ANALYSIS

SAMPLE NUMBER

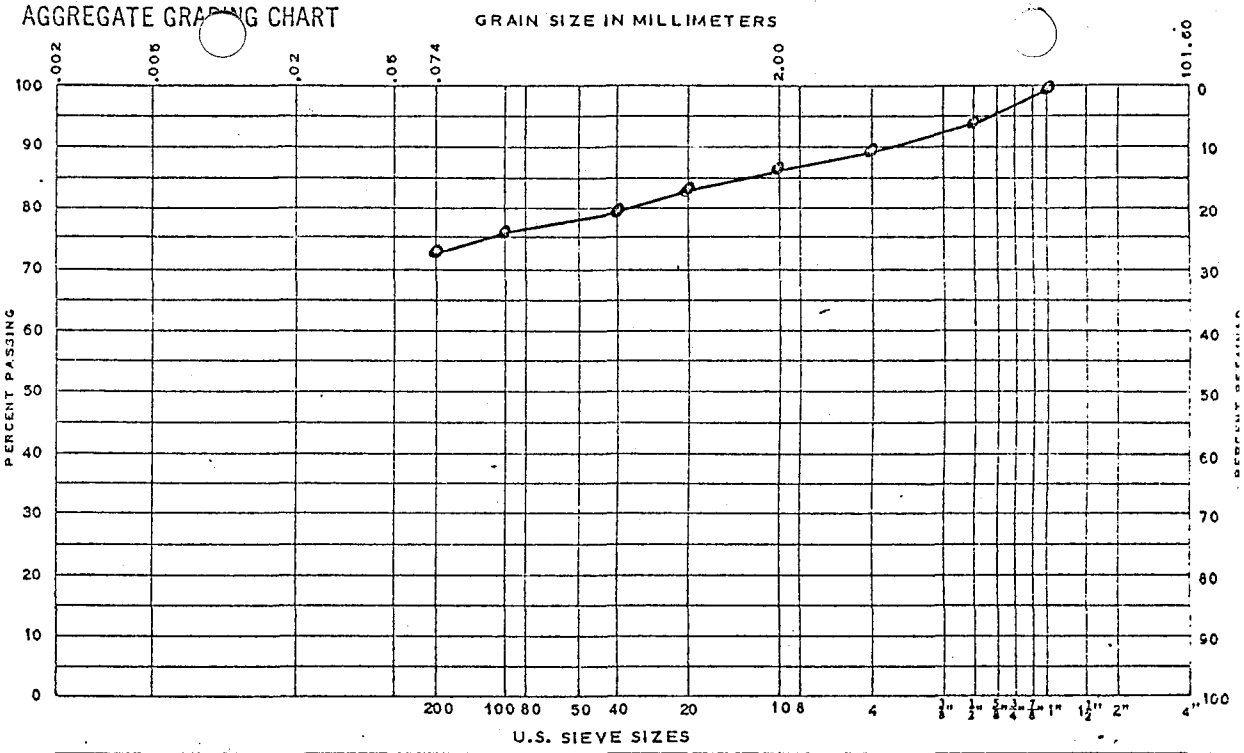
FINER BY WEIGHT	%			%
1 "	100		# 4	90.4
¾ "	98.0		# 10	87.4
½ "	94.5		# 20	83.6
⅜"	93.1		# 40	80.5
			# 100	76.1
			# 200	72.8

+ 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			30.1	27.4	2.7							
		A-4										
		M.L.										
		SILT OF SLIGHT PLASTICITY WITH SAND-GRAVEL MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY
LOCATION STA. 2460
HOLE No. DEPTH 1'+03'
SAMPLE TYPE DATE SAMPLED JUNE 69
FIELD SAMPLE No. 151 LAB SAMPLE No. 2985
D. P. W. WHITEHORSE - SOILS LAB

D. M.
TESTING ENGINEER

30-3-71
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

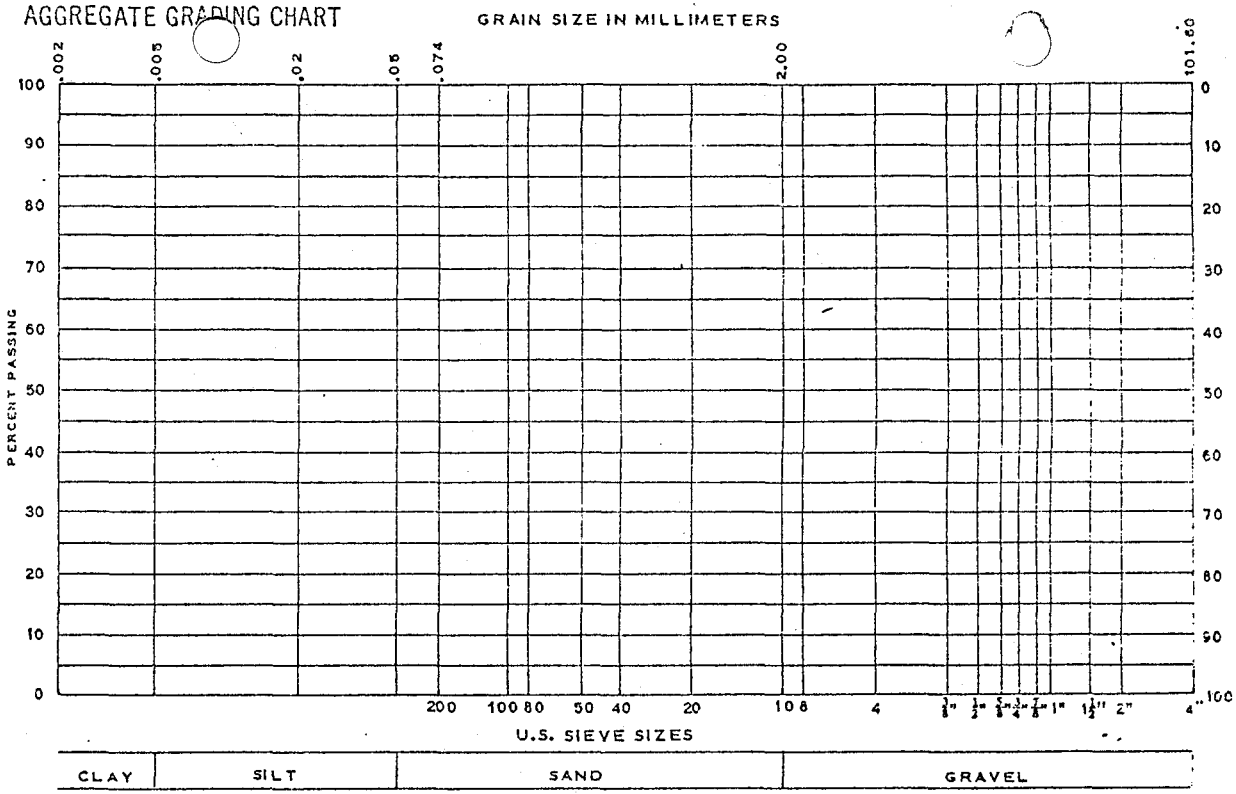
673 A

FINER BY EIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
	78.1 % PASSING #200 SIEVE							
4" + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	D Sp G	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
					0.0							
		A-4										
		M.L.										
		SILT - FINE SAND MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2460

HOLE No. ..... DEPTH 3' to 10'

SAMPLE TYPE ..... DATE SAMPLED JUNE 69

FIELD SAMPLE No. 152 LAB SAMPLE No. 2986

D. P. W. WHITEHORSE - SOILS LAB J.M.

29-3-71

TESTING ENGINEER — DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER — DATE

D 673 A

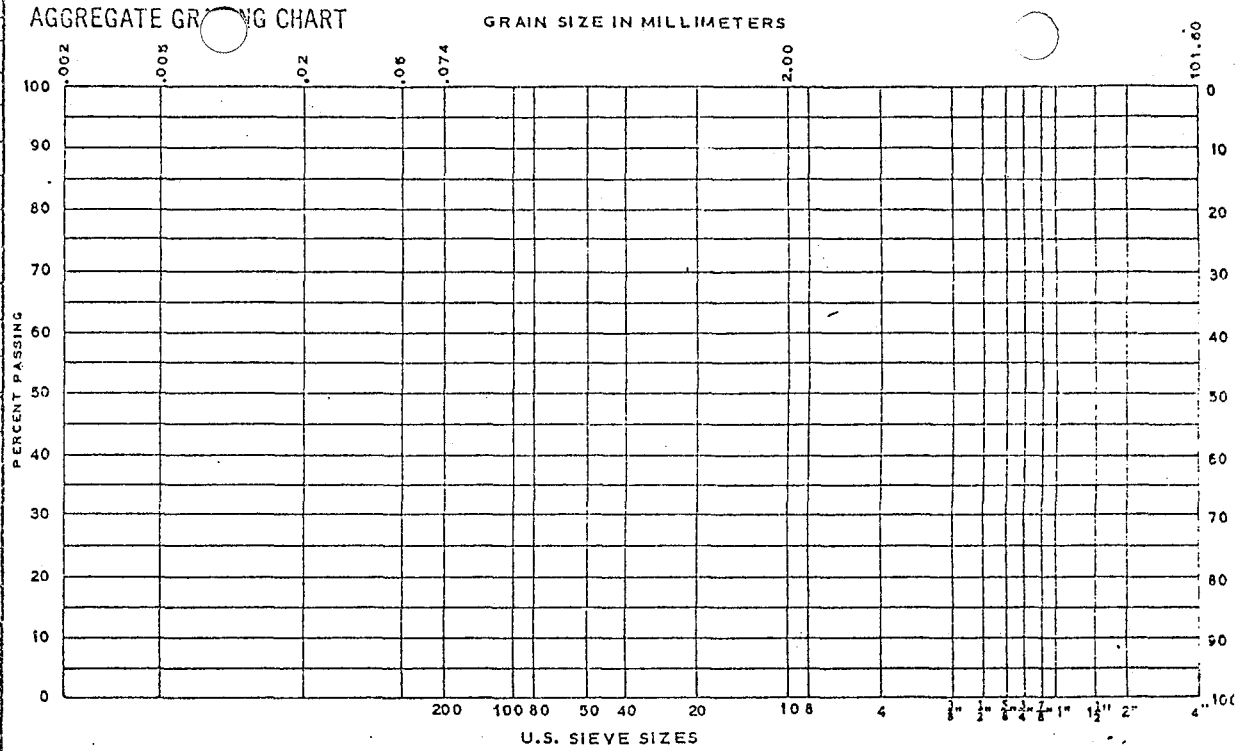
SIEVE ANALYSIS

FINER BY WEIGHT	SAMPLE NUMBER							
	78.1% PASSING #200 SIEVE							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
					0.0							
		A-4										
		M.L.										
		SILT - FINE SAND MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2450

HOLE No. ..... DEPTH 3' to 10'

SAMPLE TYPE ..... DATE SAMPLED JUNE 69

FIELD SAMPLE No. 153 LAB SAMPLE No. 2987

D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

D 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

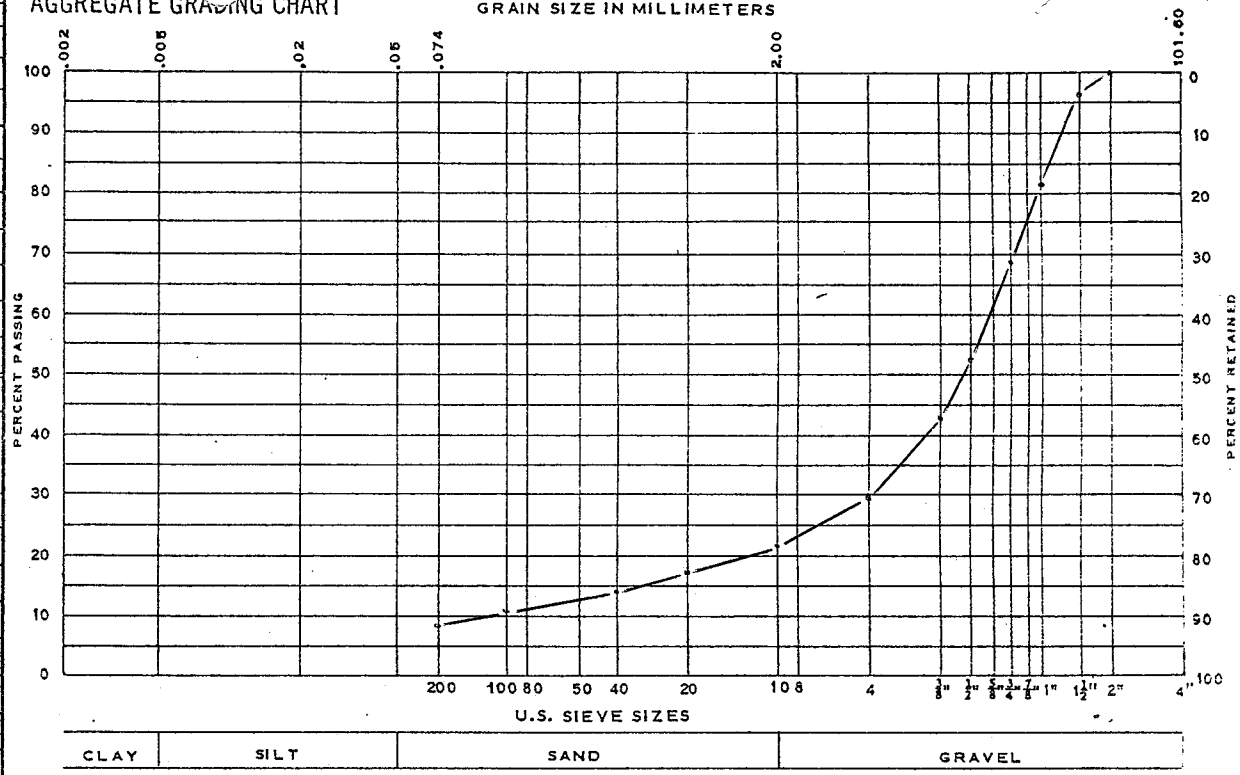
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	2"		21.7	#10					
95.7	1½		16.9	20					
80.9	1		14.2	40					
69.3	¾		10.6	100					
52.4	½		8.6	200					
43.4	⅜								
29.8	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			00							
		G.W.										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY.

LOCATION STA. 2445

HOLE No. ..... DEPTH 4'-10'

SAMPLE TYPE ..... DATE SAMPLED JUNE '69

FIELD SAMPLE No. 154 ..... LAB SAMPLE No. 2988

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE 25-3-71

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

SHEET OF

SIEVE ANALYSIS

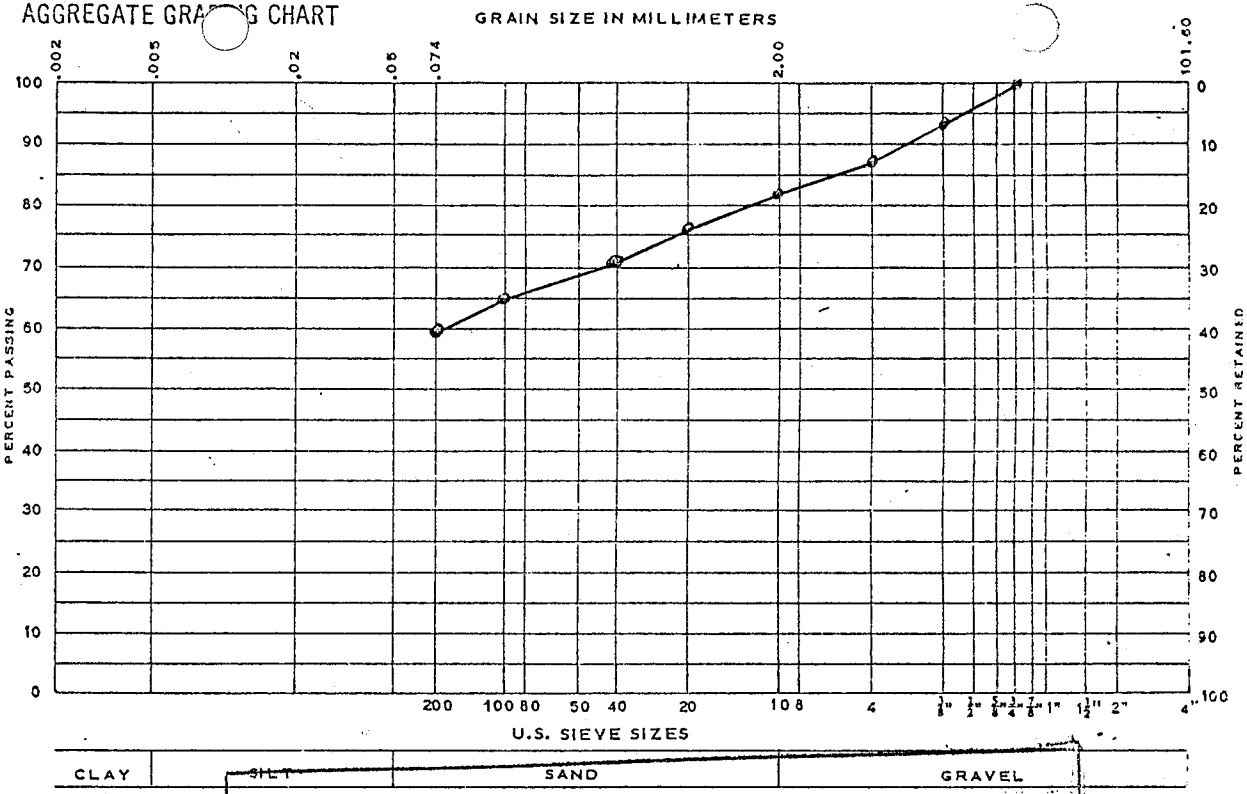
SAMPLE NUMBER

FINER BY WEIGHT	%
3/4"	100
1/2"	95.9
3/8"	93.1
# 4	87.5
10	82.0
20	75.9
40	71.2
100	64.5
200	59.9
+ 4"	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			25.2	21.1	4.1							
		A-4										
		M.L.										
		SANDY SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT

LOCATION DEMPSTER HIGHWAY

HOLE No. DEPTH 5' to 15'

SAMPLE TYPE STR 2435 DATE SAMPLED JUNE 69

FIELD SAMPLE No. 155 LAB SAMPLE No. 2989

D. P. W. WHITEHORSE - SOILS LAB

30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

673 A

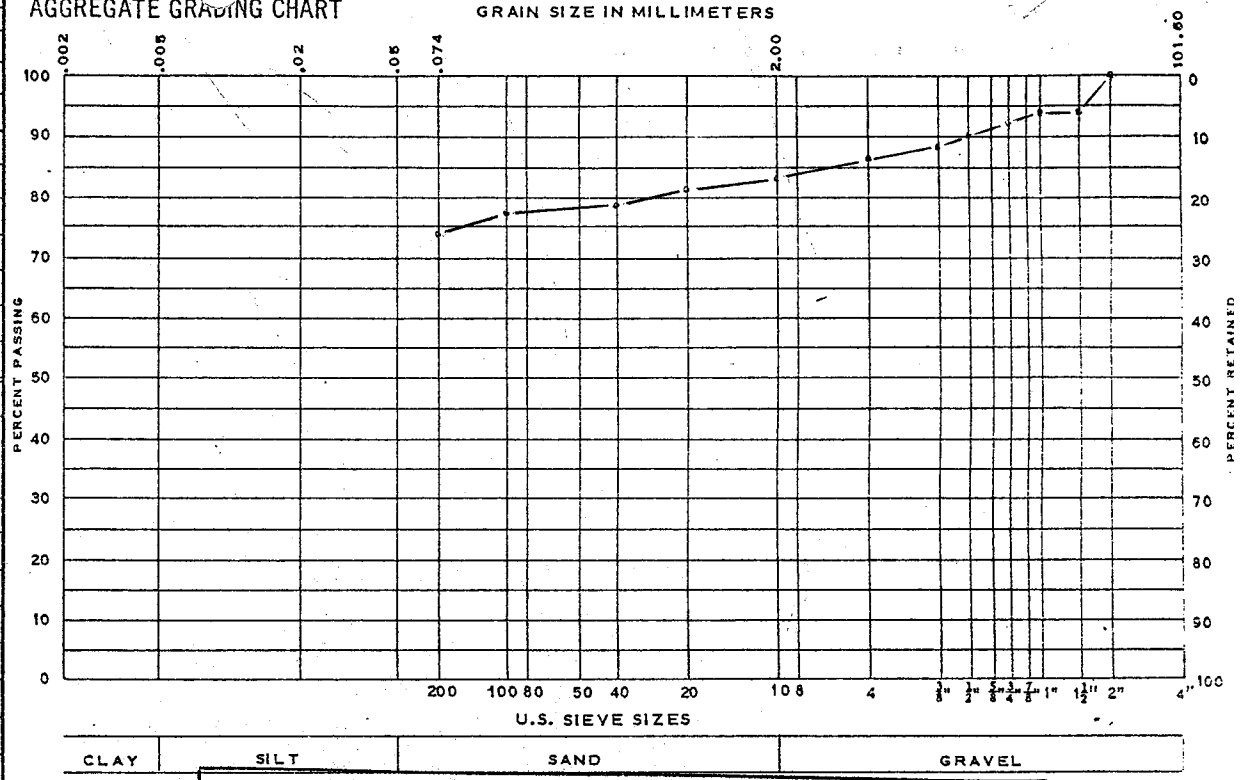
AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	2"		83.5	#10					
94.3	1 1/2		81.1	20					
94.3	1		79.4	40					
92.1	3/4		76.5	100					
90.0	1/2		74.1	200					
87.9	3/8								
86.0	#4								
% + 4"									

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			30.1	27.4	2.7							
		A-4										
		M.L.										
		SILT OF SLIGHT PLASTICITY										
		WITH SAND-GRAVEL MIXTURE										

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT .....

LOCATION DEMPSTER HI-WAY STA. 2430

HOLE No. ..... DEPTH 6' to 13'

SAMPLE TYPE ..... DATE SAMPLED JUNE '69.

FIELD SAMPLE No. 156 LAB SAMPLE No. 2990 ~~2898~~

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER 25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

2990 - 6'-13' STA. 2430 SAMPLE # 156

~~2898 - 8'-10' " 2835 " # 64.~~

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

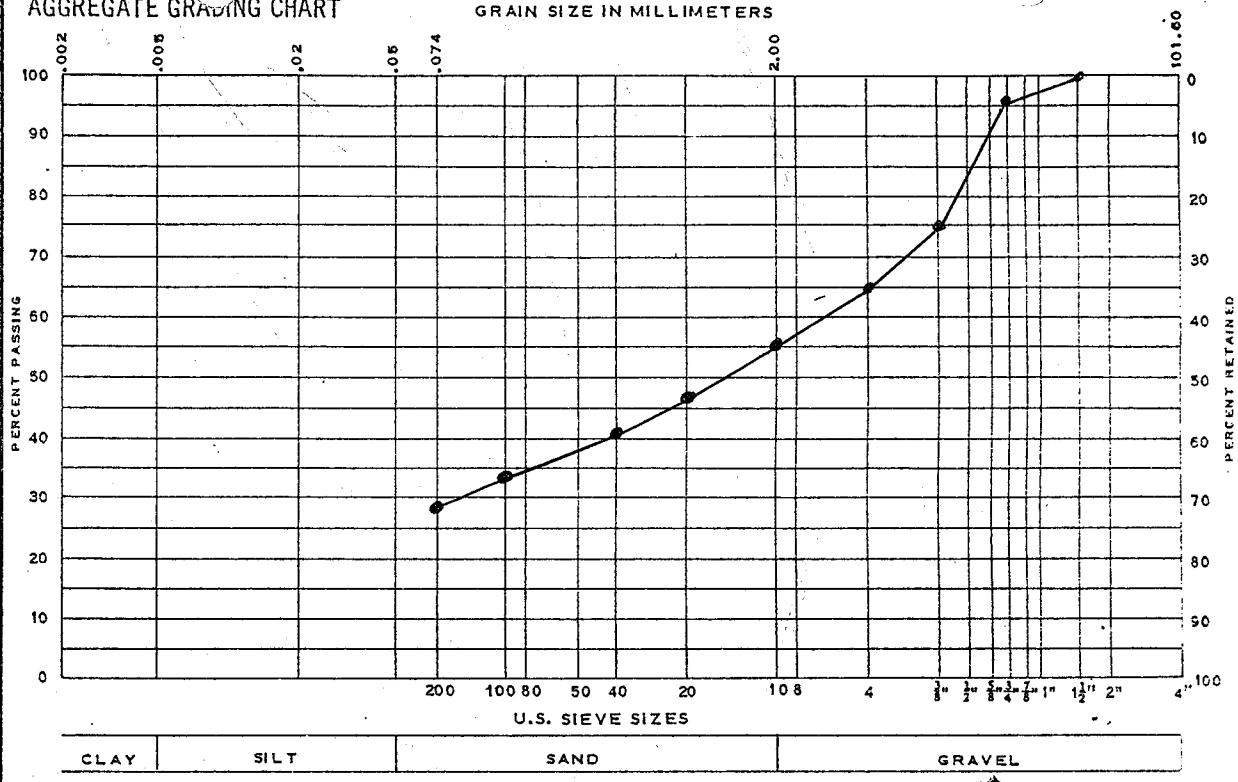
SIEVE ANALYSIS

% FINER BY WEIGHT	SAMPLE NUMBER			
	%			%
1½ "	100		# 4	65.2
1 "	95.9		# 10	55.7
¾ "	95.9		# 20	47.2
½ "	81.1		# 40	41.5
⅜ "	75.2		# 100	34.0
			# 200	29.1
% + 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.7	20.7			2.0					
		A-2-4										
		S M.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2425'

HOLE No. DEPTH 6' to 12'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 157 LAB SAMPLE No. 2991

D. P. W. WHITEHORSE - SOILS LAB J.M.

30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

SHEET OF

SIEVE ANALYSIS

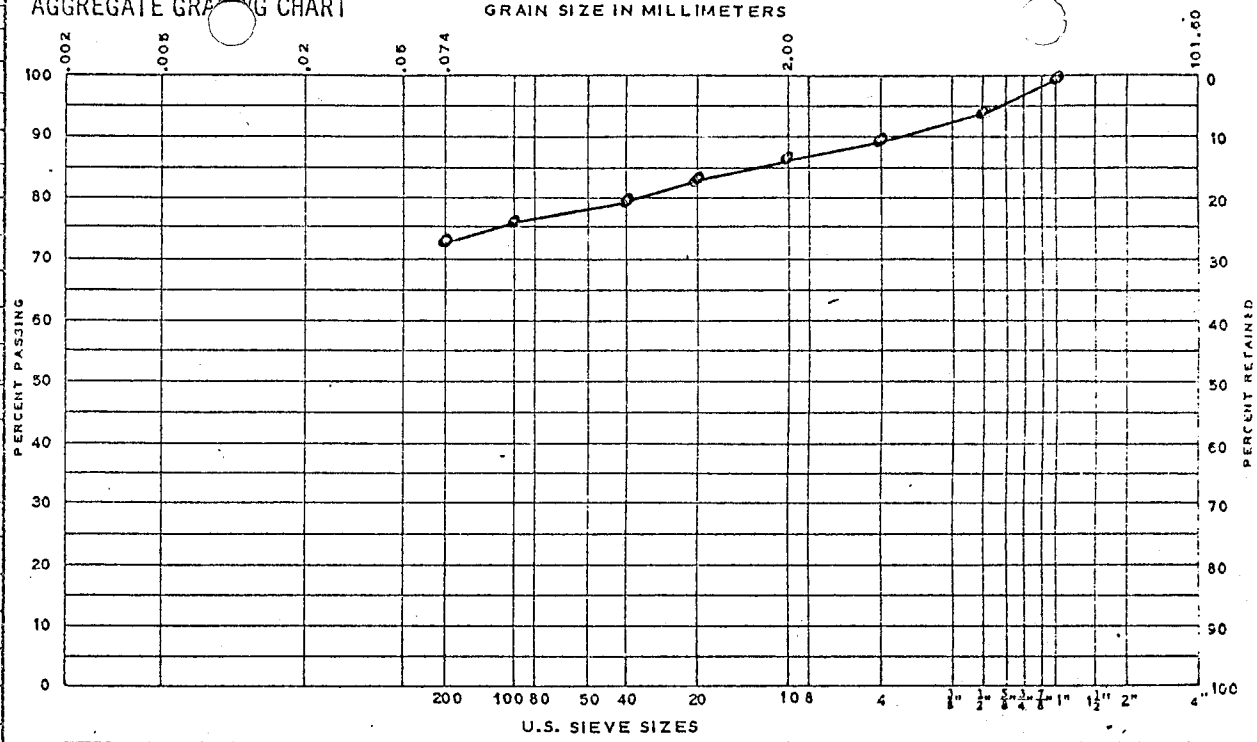
SAMPLE NUMBER

FINER BY WEIGHT	%		%
1 "	100	# 4	90.4
¾ "	98.0	# 10	87.4
½ "	94.5	# 20	83.6
⅜"	93.1	# 40	80.5
		# 100	76.1
		# 200	72.8
+ 4"			

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			30.1	27.4	2.7							
		A-4										
		M.L.										
		SILT OF SLIGHT PLASTICITY WITH SAND-GRAVEL MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY
LOCATION STA. 2415'
HOLE No. DEPTH 7' to 12'
SAMPLE TYPE DATE SAMPLED JUNE 69
FIELD SAMPLE No. 158 LAB SAMPLE No. 2992
D. P. W. WHITEHORSE - SOILS LAB

30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

673 A

SHEET OF

SIEVE ANALYSIS

SAMPLE NUMBER

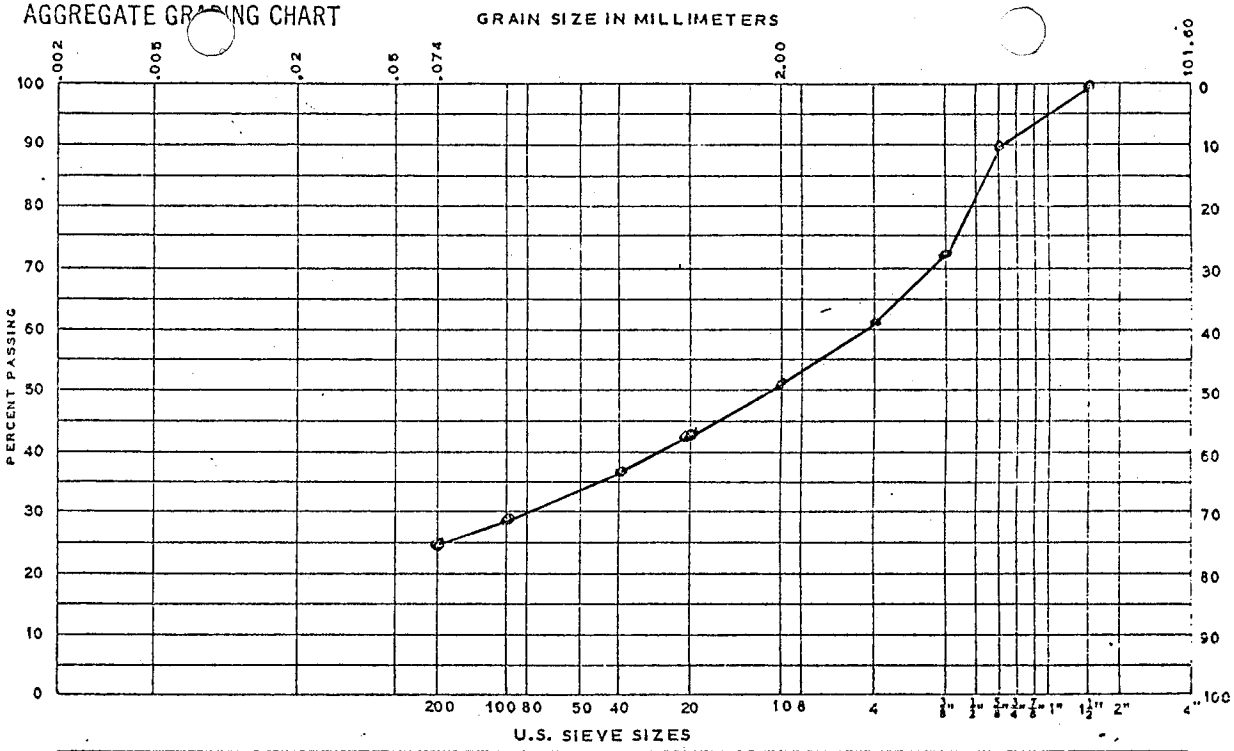
FINER BY WEIGHT	%		%
1½"	100	# 4	60.8
1 "	96.2	# 10	51.6
¾ "	90.1	# 20	43.2
½ "	80.3	# 40	36.9
⅜ "	71.8	# 100	29.1
		# 200	24.9

% + 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.8	18.4	3.4							
		A-1-b										
		S.M.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT

LOCATION DEMPSTER HIGHWAY

HOLE No. DEPTH 6' to 15'

SAMPLE TYPE STA. 2410 DATE SAMPLED JUNE 69

FIELD SAMPLE No. 15-9 LAB SAMPLE No. 2993

D. P. W. WHITEHORSE - SOILS LAB J.M.

30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

673 A

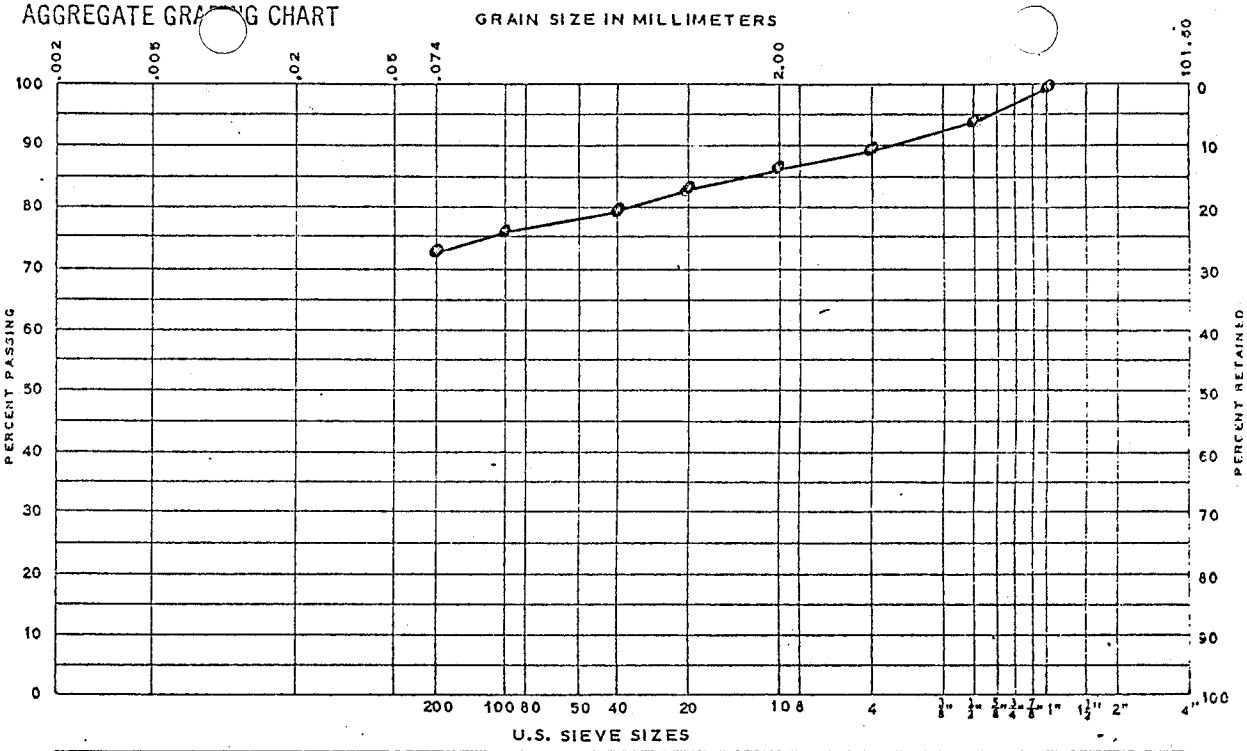
SHEET OF

FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER			
	%			%
1 "	100		# 4	90.4
¾ "	98.0		# 10	87.4
½ "	94.5		# 20	83.6
⅜"	93.1		# 40	80.5
			# 100	76.1
			# 200	72.8
+ 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			30.1	27.4	2.7							
		A-4										
		M.L.										
		SILT OF SLIGHT PLASTICITY WITH SAND-GRAVEL MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY
LOCATION STA. 2406
HOLE No. DEPTH 6' to 12'
SAMPLE TYPE DATE SAMPLED JUNE 69
FIELD SAMPLE No. 160 LAB SAMPLE No. 2994
D. P. W. WHITEHORSE - SOILS LAB

J. M.
TESTING ENGINEER

30-3-71
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

673 A

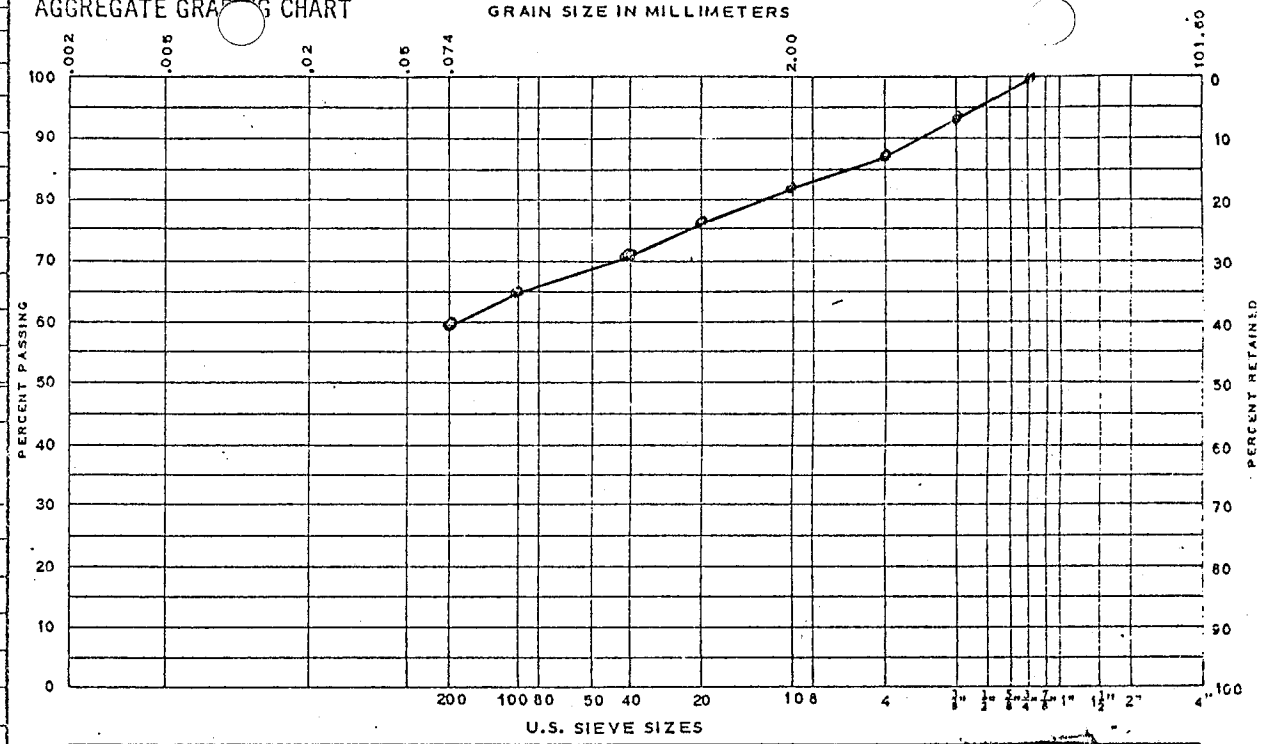
SHEET OF

INER BY IGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	%								
1/4"	100								
2"	95.9								
8"	93.1								
4	82.5								
10	82.0								
20	75.9								
40	71.2								
100	64.5								
200	59.9								
+ 4"									

IPLE O.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			25.2	21.1	4.1							
		A-4										
		M.L										
		SANDY SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT
LOCATION DEMPSTER HIGHWAY
HOLE No. DEPTH 7'-15'
SAMPLE TYPE STA 2395' DATE SAMPLED JUNE 69
FIELD SAMPLE No. 161 LAB SAMPLE No. 2995'
D. P. W. WHITEHORSE - SOILS LAB J.M.
30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

673-A

AGGREGATE DEPOSIT REPORT (Cont'd)

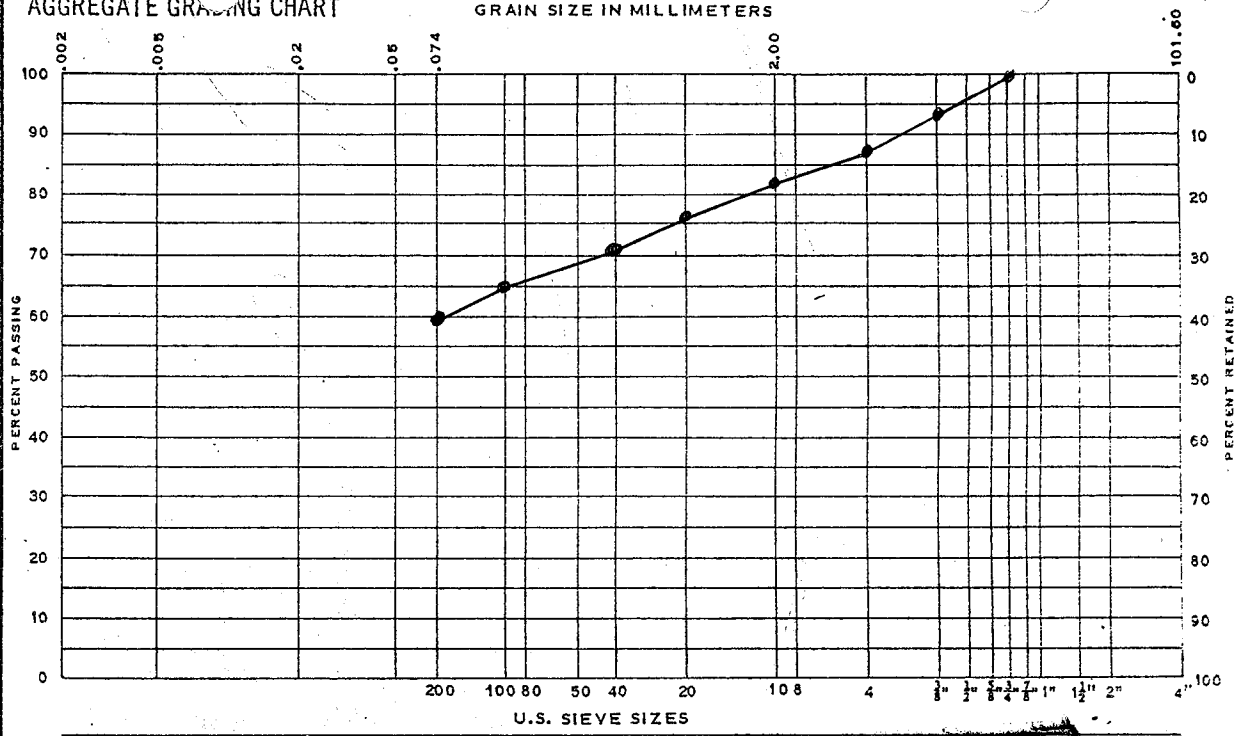
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	%								
3/4"	100								
1/2"	95.9								
3/8"	93.1								
# 4	87.5								
# 10	82.0								
# 20	75.9								
# 40	71.2								
# 100	64.5								
# 200	59.9								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			25.2	21.1	4.1							
		A-4										
		M.L										
		SANDY SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT

LOCATION DEMPSTER HIGHWAY

HOLE No. DEPTH 5' to 10'

SAMPLE TYPE STA 2380 DATE SAMPLED JUNE 69

FIELD SAMPLE No. 162 LAB SAMPLE No. 2996

D. P. W. WHITEHORSE - SOILS LAB.

30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

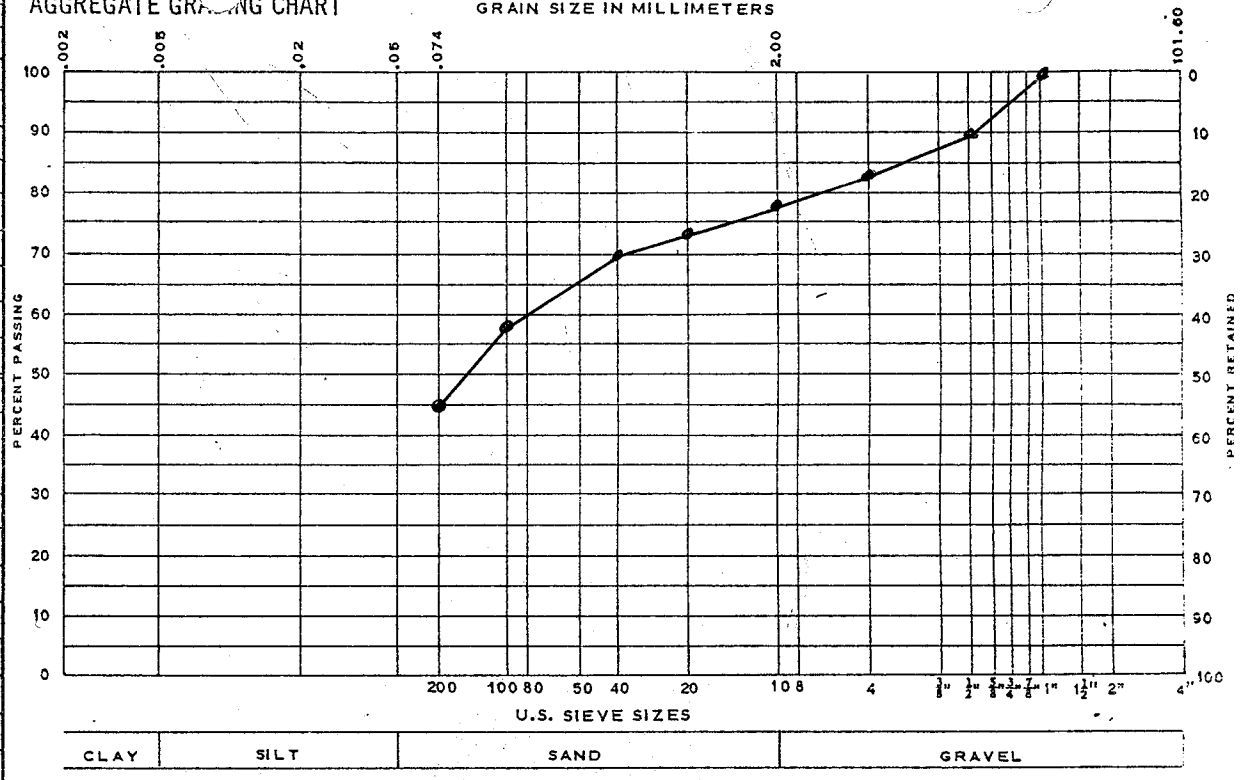
SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	%			%					
1"	100		# 4	83.2					
3/4"	93.2		# 10	78.4					
1/2"	90.3		# 20	73.6					
3/8"	87.2		# 40	70.2					
			# 100	58.0					
			# 200	44.6					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.9	18.9	4.0							
		A-4										
		M.L.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2375

HOLE No. DEPTH 6' to 10'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 163 LAB SAMPLE No. 2997

D. P. W. WHITEHORSE SOILS LAB

TESTING ENGINEER

DATE 30-3-71

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

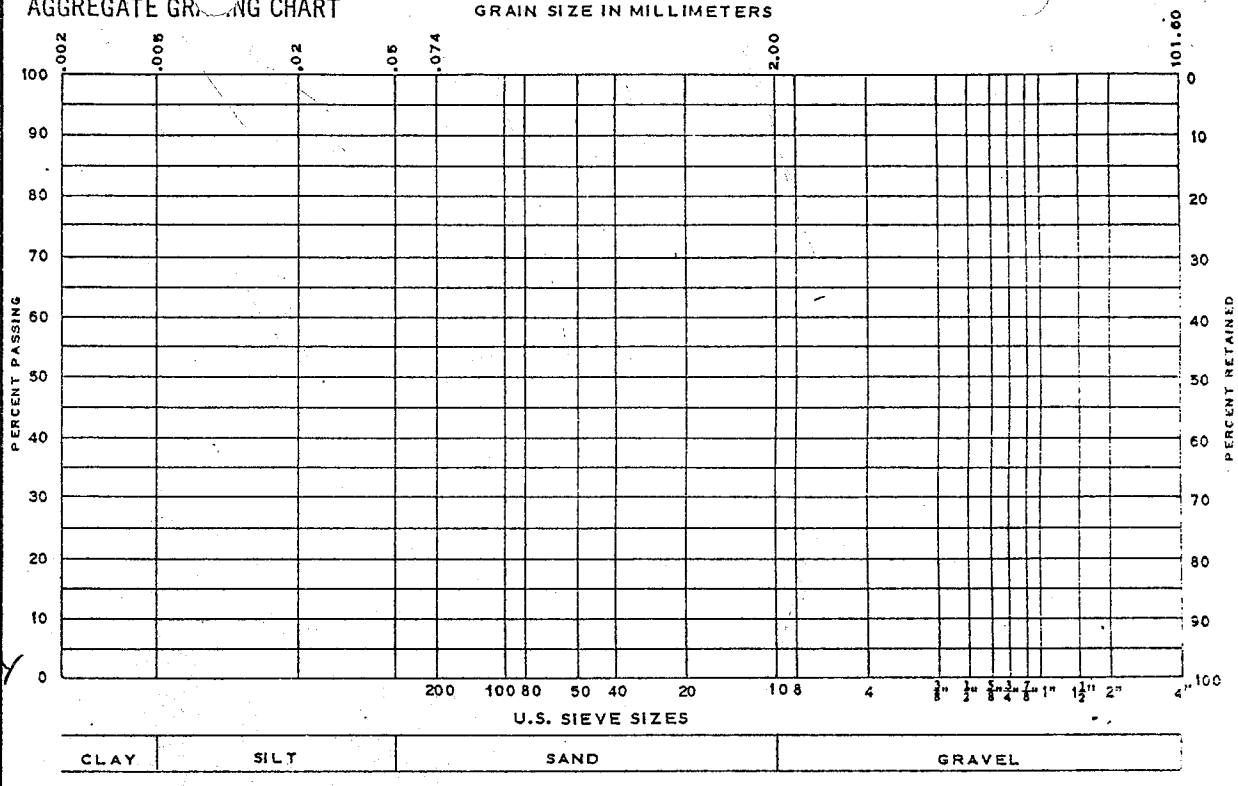
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	81.3 % PASSING #200 SIEVE								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		~~41.1~~										
		41.1	37.1		4.0							
		A-5										
		M.L.										
		SANDY SILT WITH LOW PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2370

HOLE No. ..... DEPTH 6' to 8'

SAMPLE TYPE ..... DATE SAMPLED JUNE 69

FIELD SAMPLE No. 164 LAB SAMPLE No. 2998

D. P. W. WHITEHORSE - SOILS LAB

J. M.

26-3-71

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

SHEET OF

SIEVE ANALYSIS

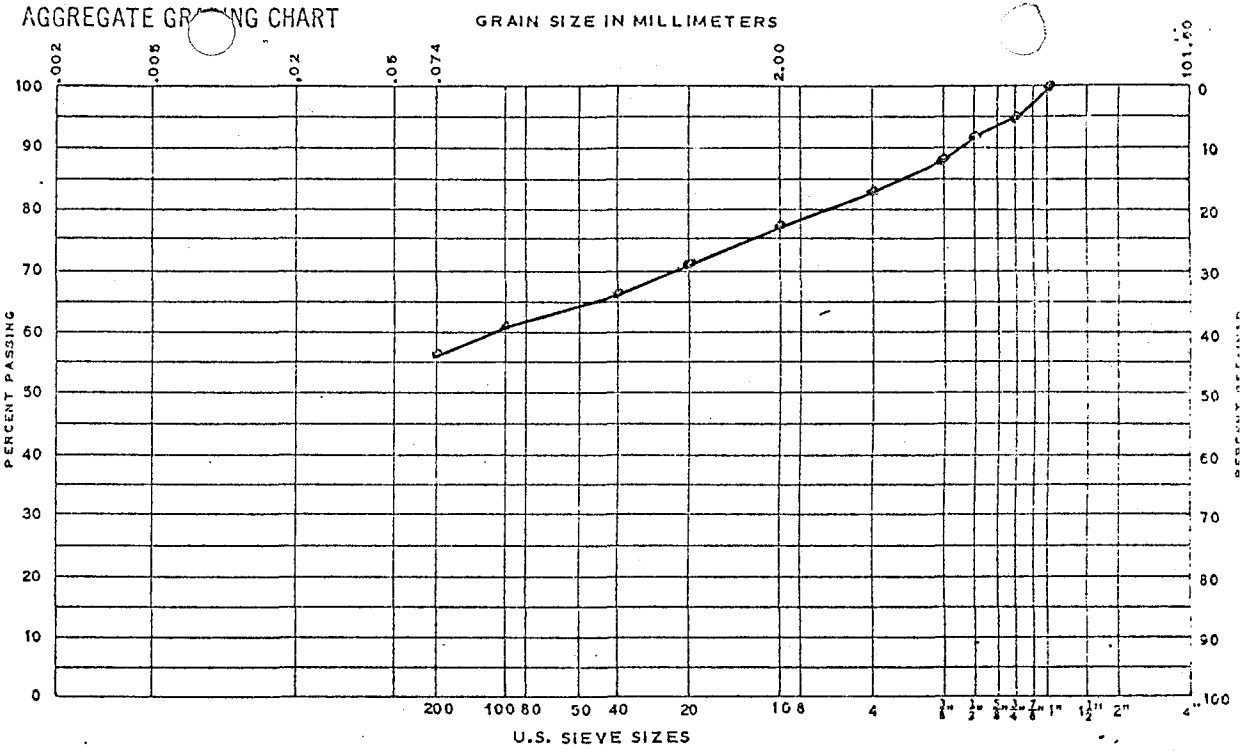
SAMPLE NUMBER

FINER BY WEIGHT	%		%
1"	100	# 4	83.6
¼"	95.2	# 10	76.8
½"	92.0	# 20	70.7
¾"	88.6	# 40	66.7
		# 100	60.8
		# 200	55.8
+ 4"			

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.9	18.9	4.0							
		A-4										
		M.L.										
		SILT - SAND MIXTURE WITH SLIGHT PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY

LOCATION: STA. 2370

HOLE No.: DEPTH: 8' to 12'

SAMPLE TYPE: DATE SAMPLED: JUNE 69

FIELD SAMPLE No.: 165 LAB SAMPLE No.: 2999

D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER — DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER — DATE

673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET 05

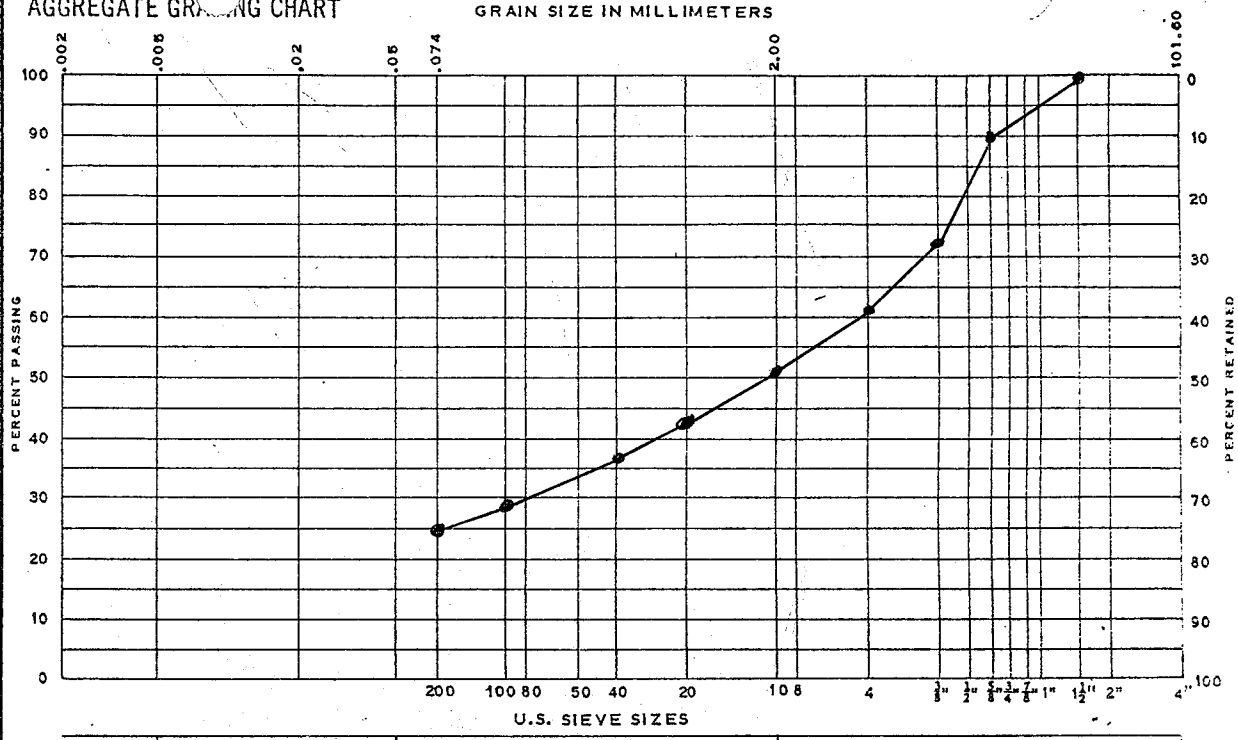
% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	%			%					
1½"	100		# 4	60.8					
1 "	96.2		# 10	51.6					
¾ "	90.1		# 20	43.2					
½ "	80.3		# 40	36.9					
⅜ "	71.8		# 100	29.1					
			# 200	24.9					

% + 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.8	18.4	3.4							
		A-1-b										
		S.M.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT
LOCATION DEMPSTER HIGHWAY
HOLE No. DEPTH 6' to 14'
SAMPLE TYPE STA. 2365' DATE SAMPLED JUNE 69
FIELD SAMPLE No. 166 LAB SAMPLE No. 3000
D. P. W. WHITEHORSE - SOILS LAB J. M.
30-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

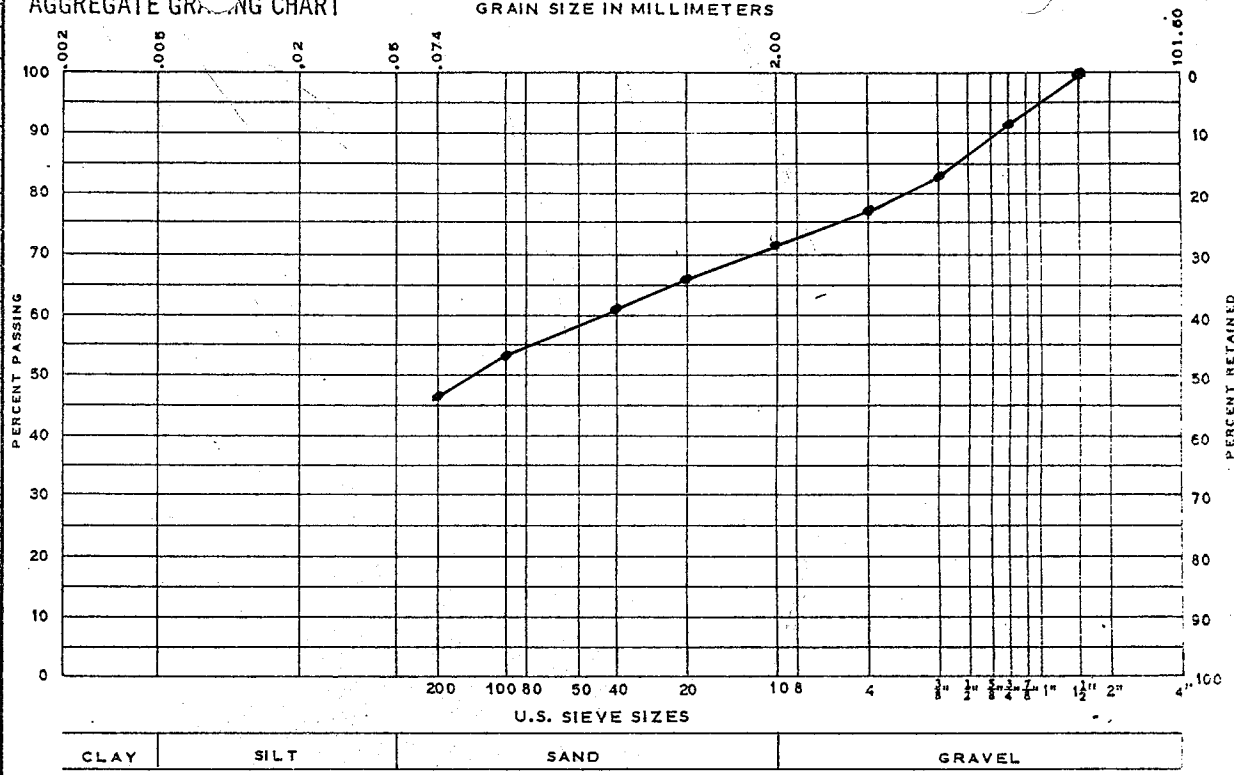
% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER			
	%			%
1½"	100		# 4	76.9
1"	96.5		# 10	71.5
¾"	92.3		# 20	65.7
½"	85.4		# 40	61.2
⅜"	83.2		# 100	52.9
			# 200	47.1

% + 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.2	18.0	3.2							
		A-4										
		S.M.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 2360

HOLE No. DEPTH 6' to 14'

SAMPLE TYPE DATE SAMPLED

FIELD SAMPLE No. 167 LAB SAMPLE No. 1

D. P. W. WHITEHORSE - SOILS LAB J. M.

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

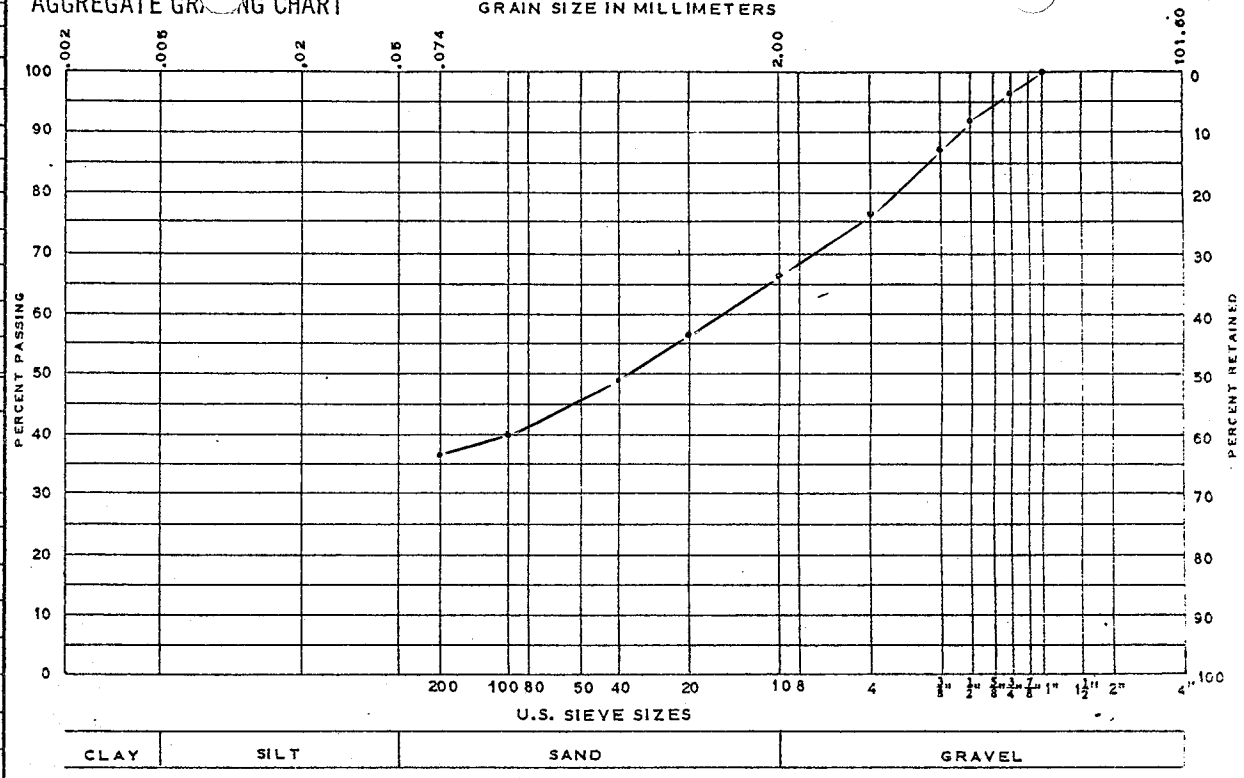
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	1"		65.8	#10					
96.2	3/4		55.7	20					
91.7	1/2		48.7	40					
86.8	3/8		40.2	100					
75.7	#4		36.4	200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.7	20.7	2.0							
		A-4										
		S.M.										
		SILTY SAND.										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY.

LOCATION

HOLE No. DEPTH

SAMPLE TYPE DATE SAMPLED JUNE '69.

FIELD SAMPLE No. LAB SAMPLE No. 263

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER 25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

2 - 9'-15' STA. 2350 SAMPLE # 168

3 - 10'-15' " 2345 " # 169.

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

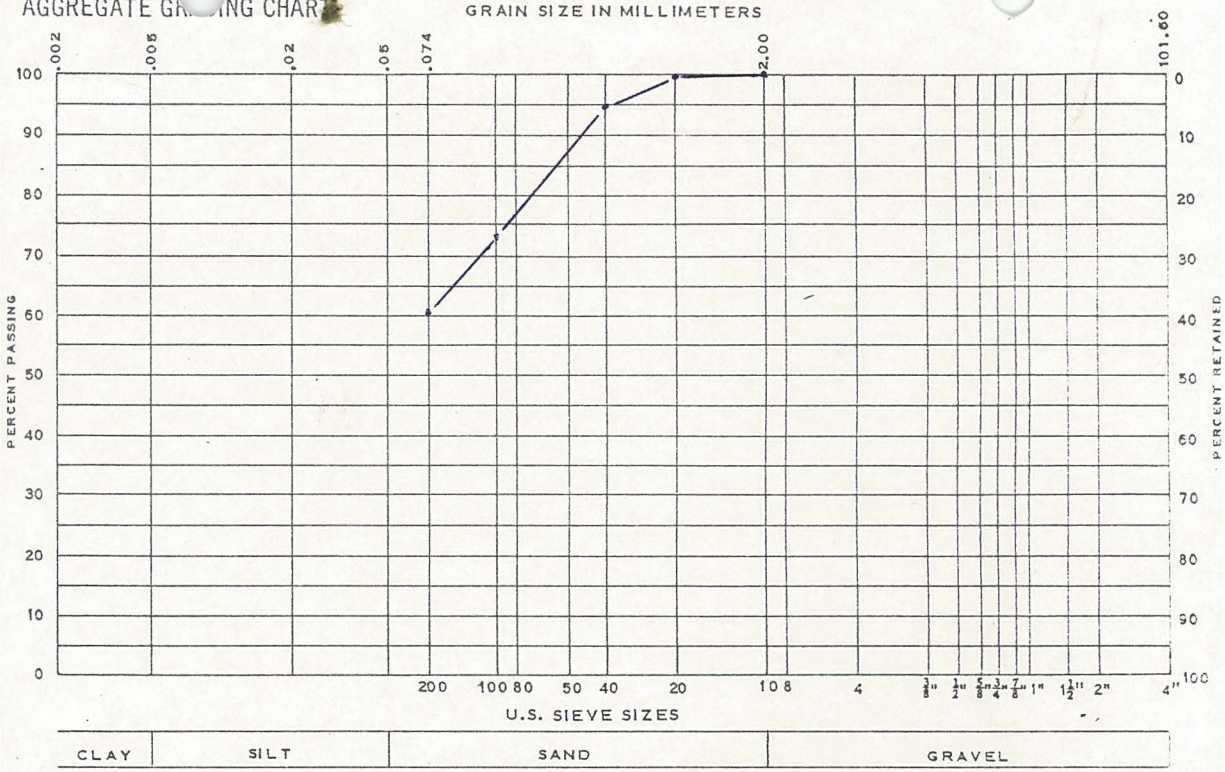
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE								
100.0	#10								
99.3	#20								
94.9	#40								
72.6	#100								
60.8	#200								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4			NP							
		ML										
		INORGANIC SILT AND FINE CLAY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 233+00

HOLE No.: DEPTH: 9-15'

SAMPLE TYPE: DATE SAMPLED: JUNE/65

FIELD SAMPLE No.: LAB SAMPLE No.: 192

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE: 6/9/70

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

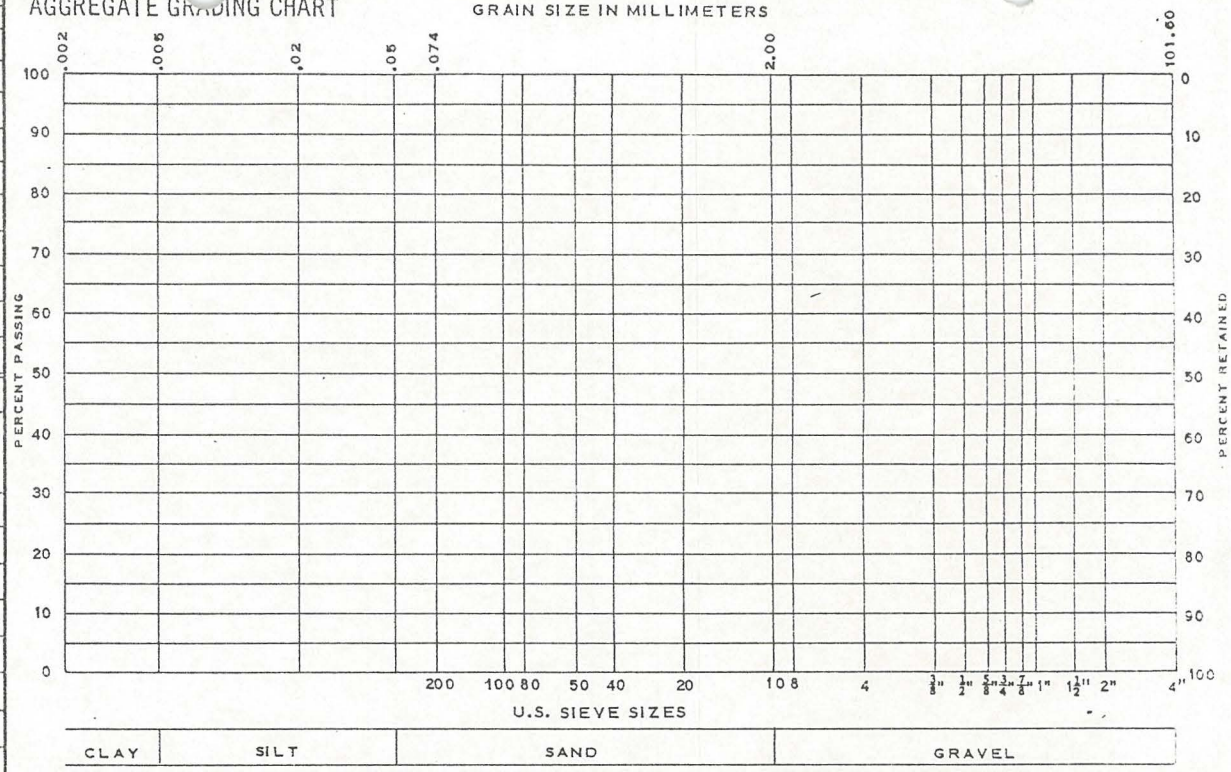
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		Pt. PEAT, HIGHLY ORGANIC MATERIAL.										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT Dempster Highway Construction

LOCATION Sta. 2330+00

HOLE No. ..... DEPTH 5-9'

SAMPLE TYPE ..... DATE SAMPLED June/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 193

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE 6/4/70

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

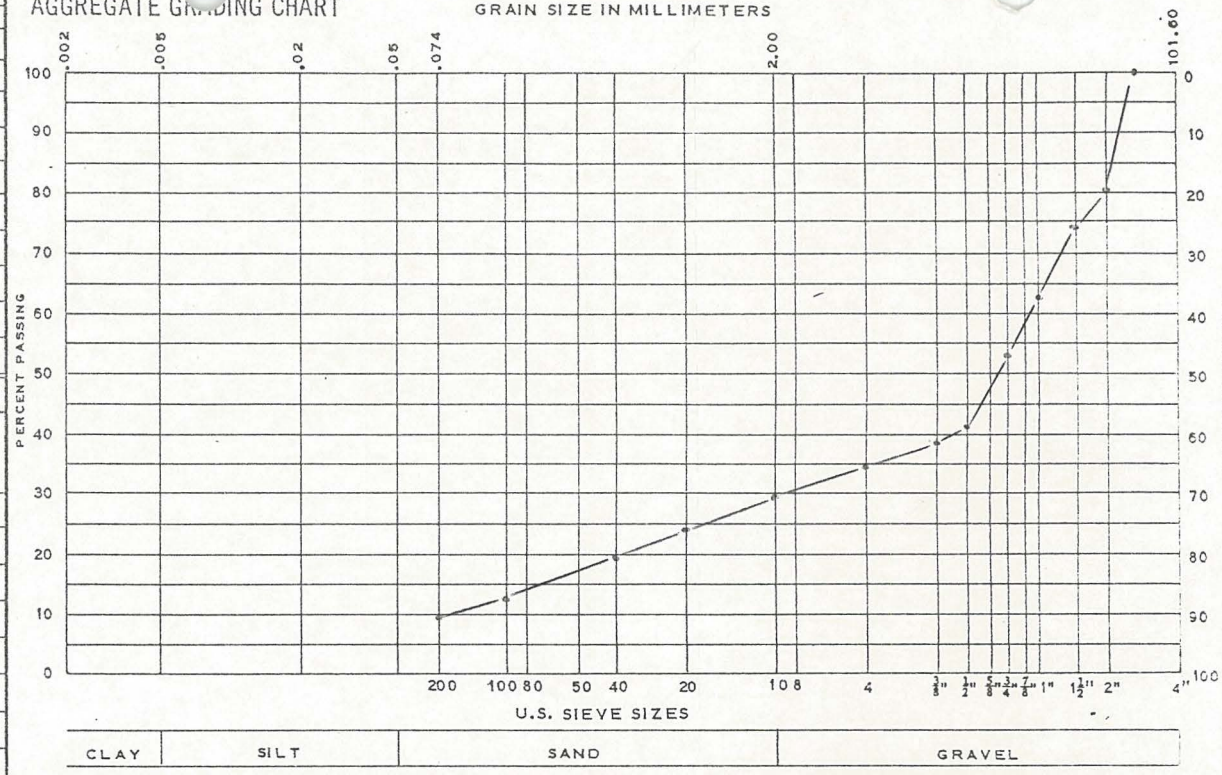
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER									
	SIEVE		% FINER	SIEVE						
100.0	3"		29.5	#10						
80.4	2"		24.0	#20						
73.6	1½"		19.3	#40						
62.9	1"		12.4	#100						
52.5	¾"		9.7	#200						
41.4	½"									
37.6	⅜"									
34.9	#4									
% + 4"										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		GP										
		POORLY-GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 2295+00 - 2280+00

HOLE No. ..... DEPTH: 6'-12', 5'-10'

SAMPLE TYPE ..... DATE SAMPLED: June 6,5

FIELD SAMPLE No. ..... LAB SAMPLE No.: 197

D. P. W. WHITEHORSE - SOILS LAB 198

TESTING ENGINEER

6/4/70
DATE

SA

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

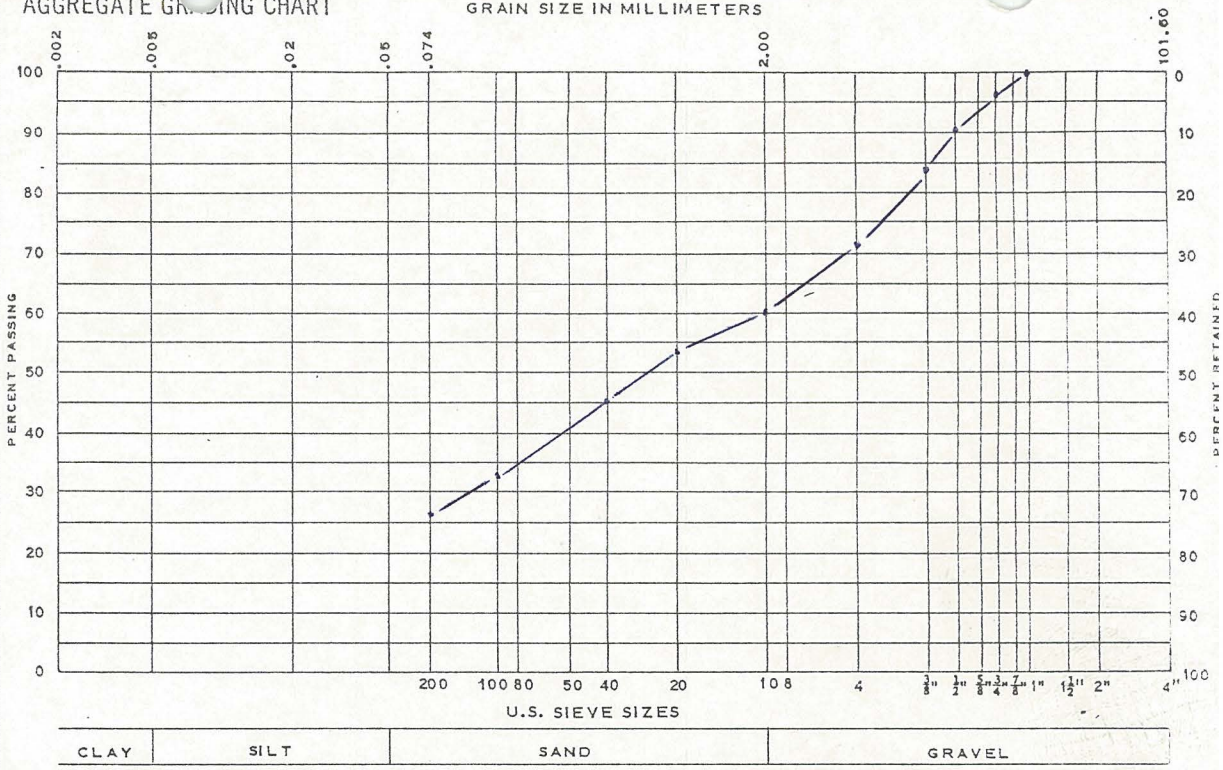
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
	SIEVE		% FINER	SIEVE				
100.0	1"		60.1	#10				
96.1	3/4"		53.1	#20				
90.2	1/2"		45.1	#40				
83.8	3/8"		32.5	#100				
71.3	#4		26.5	#200				
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-2-4			00							
		SM										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT Dempster Highway Construction

LOCATION STA. 226+00

HOLE No. ..... DEPTH 4-12'

SAMPLE TYPE ..... DATE SAMPLED June/65

FIELD SAMPLE No. ..... LAB SAMPLE No. 199

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/4/70
DATE

EX

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

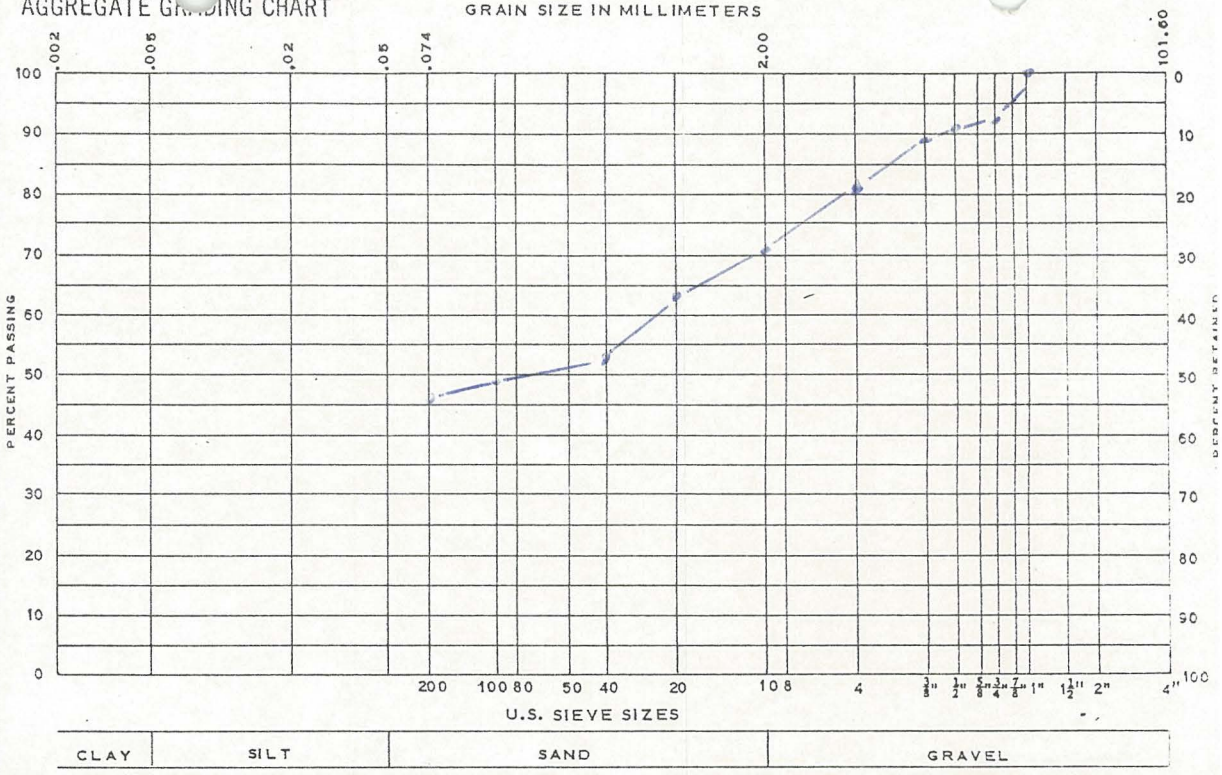
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	1"		70.9	#10					
93.2	3/4		64.2	#20					
91.9	1/2		58.7	#40					
89.0	3/8		49.1	#100					
80.4	#4		45.7	#200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4 SM SILT - SAND MIXTURE	22.9	19.1	3.8							

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: Dempster Highway Construction

LOCATION: STA 229+00

HOLE No.: DEPTH: 7'-12'

SAMPLE TYPE: DATE SAMPLED: June/69

FIELD SAMPLE No.: LAB SAMPLE No. 200

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/9/70
DATE SM

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

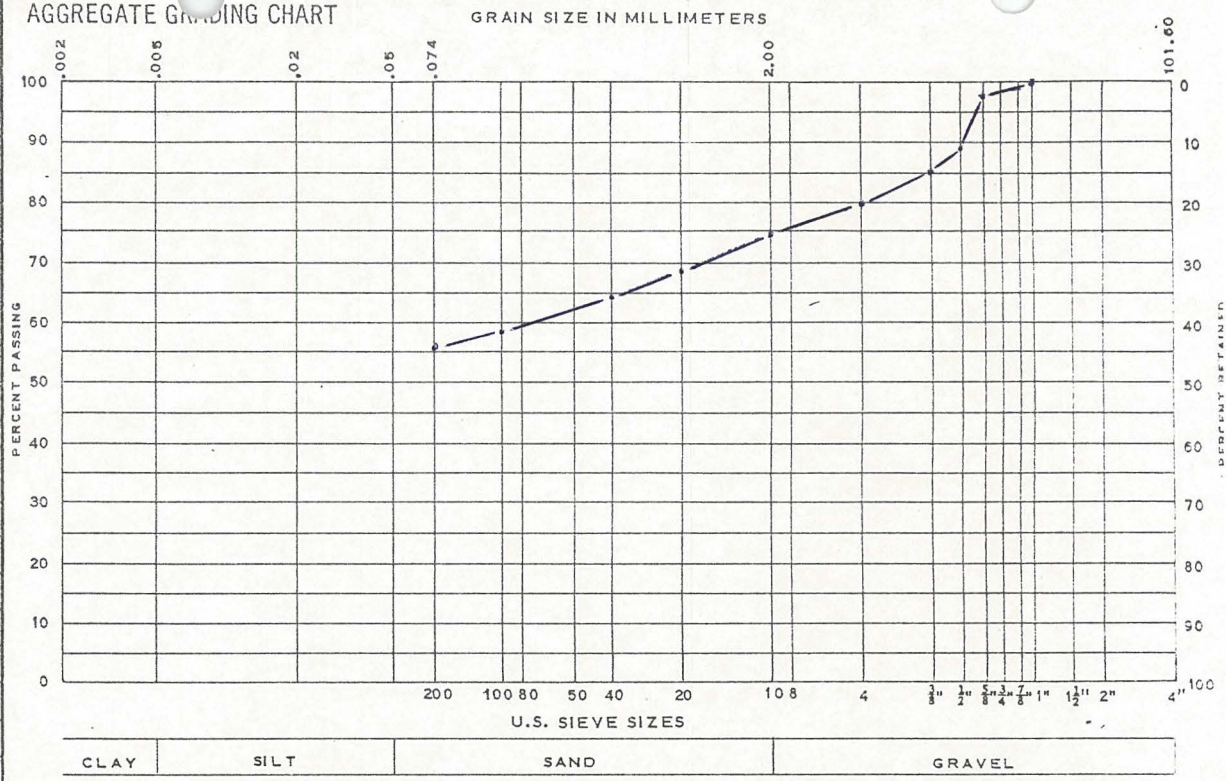
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER SIEVE		% FINER	SIEVE				
100.0	1"		74.3	#10				
97.3	3/4"		68.7	#20				
88.9	1/2"		64.7	#40				
85.6	3/8"		58.1	#100				
79.5	#4		55.2	#200				
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4 2742185 6										
		ML										
		INORGANIC SILT AND FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 2200+00 ℄

HOLE No. ..... DEPTH: 8-16'

SAMPLE TYPE ..... DATE SAMPLED: JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No.: 203

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/9/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

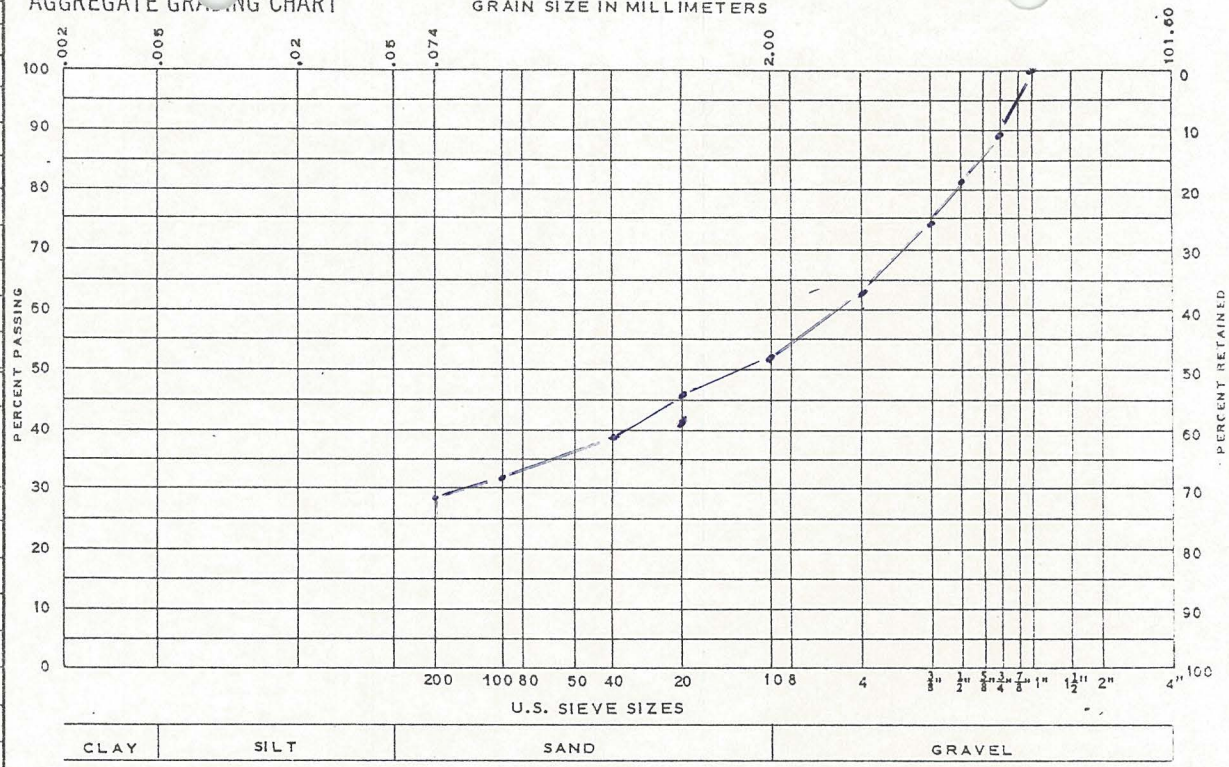
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	1		53.2	#10					
89.1	3/4		45.1	#20					
80.3	1/2		39.9	#40					
74.7	3/8		31.9	#100					
63.7	#4		27.8	#200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-2-4	29.7	27.6	2.1							
		3M										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STATION: 2195 +00

HOLE No. ..... DEPTH 7½' - 15'

SAMPLE TYPE ..... DATE SAMPLED JUNE/67

FIELD SAMPLE No. ..... LAB SAMPLE No. 204

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

SIEVE ANALYSIS

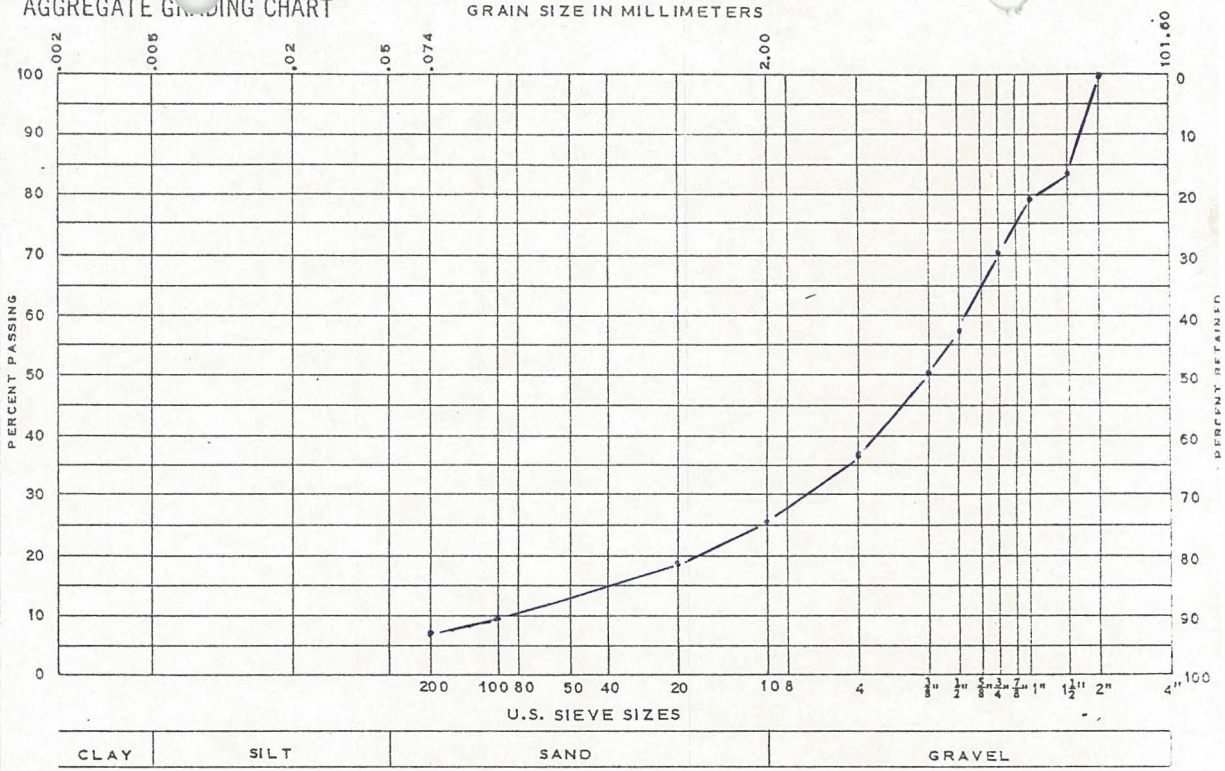
SAMPLE NUMBER

% FINER BY WEIGHT	SIEVE		% FINER	SIEVE
100.0	2"		25.4	#10
83.3	1½"		18.7	#20
79.8	1"		14.3	#40
70.9	¾"		9.2	#100
57.2	½"		7.1	#200
50.3	⅜"			
36.1	#4			
% + 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			N.P.							
		GW										
		WELL-GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 2185+00 ℄

HOLE No. ..... DEPTH: 6-9

SAMPLE TYPE ..... DATE SAMPLED: June/63

FIELD SAMPLE No. ..... LAB SAMPLE No.: 205

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/4/63
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

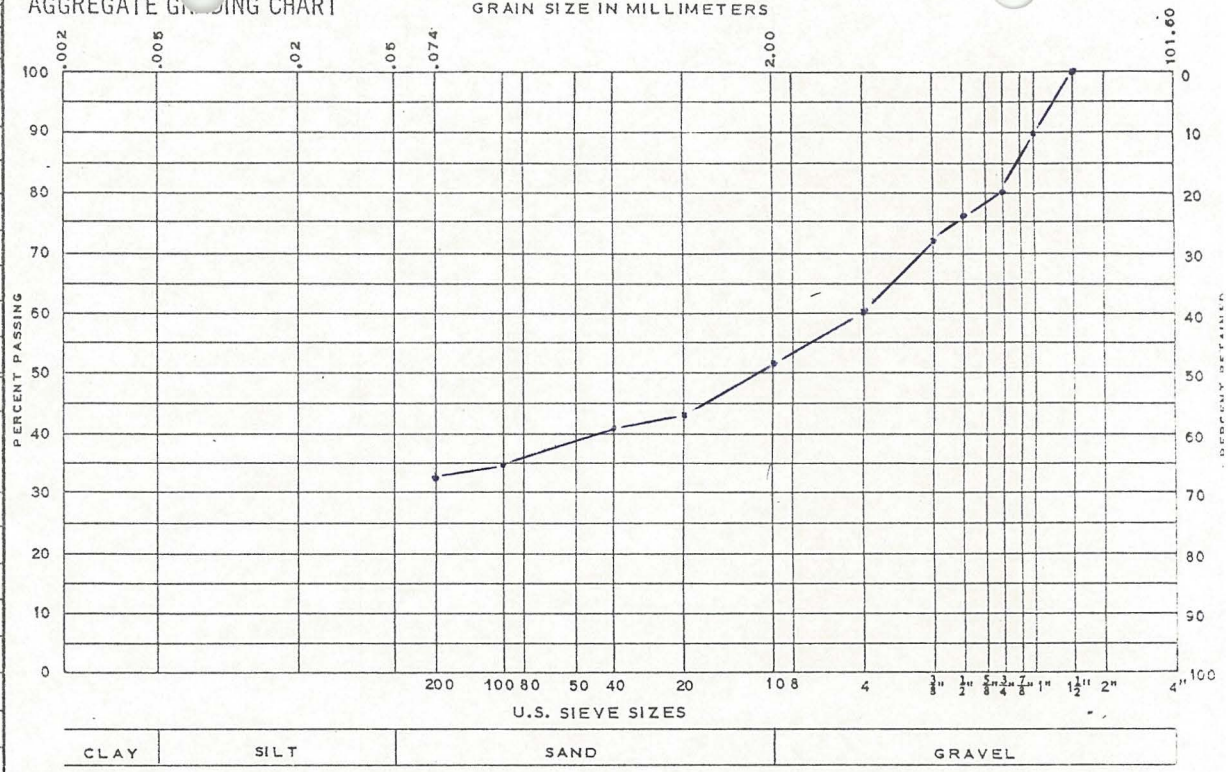
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
	SIEVE	% FINER	SIEVE					
100.0	1½"	51.8	#10					
89.8	1"	43.2	#20					
80.1	¾"	41.1	#40					
76.3	½"	34.9	#100					
72.1	⅜"	32.4	#200					
60.1	#4							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % Loss	MG SO_4 % Loss	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-2-4	38	33	15	7						
		SM										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 216+50 ℄

HOLE No.: DEPTH: 7'-11'

SAMPLE TYPE: DATE SAMPLED: JUNE/63

FIELD SAMPLE No.: LAB SAMPLE No.: 206

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/4/80
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	> 25% PASSING #200								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-7-5	46.5	32.3	14.2							
		ML										
		MEDIUM PLASTIC INORGANIC SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .05 .074 2.00 101.60

PERCENT PASSING 100 90 80 70 60 50 40 30 20 10 0

PERCENT RETAINED 0 10 20 30 40 50 60 70 80 90 100

200 100 80 50 40 20 10 8 4 3/8" 1/2" 5/8" 3/4" 7/8" 1" 1 1/2" 2" 4"

U.S. SIEVE SIZES

CLAY | SILT | SAND | GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMASTER HIGHWAY CONSTRUCTION

LOCATION: STA. 215700

HOLE No. ..... DEPTH: 7-14'

SAMPLE TYPE ..... DATE SAMPLED: JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No.: 207

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE: 6/9/70

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

HD 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

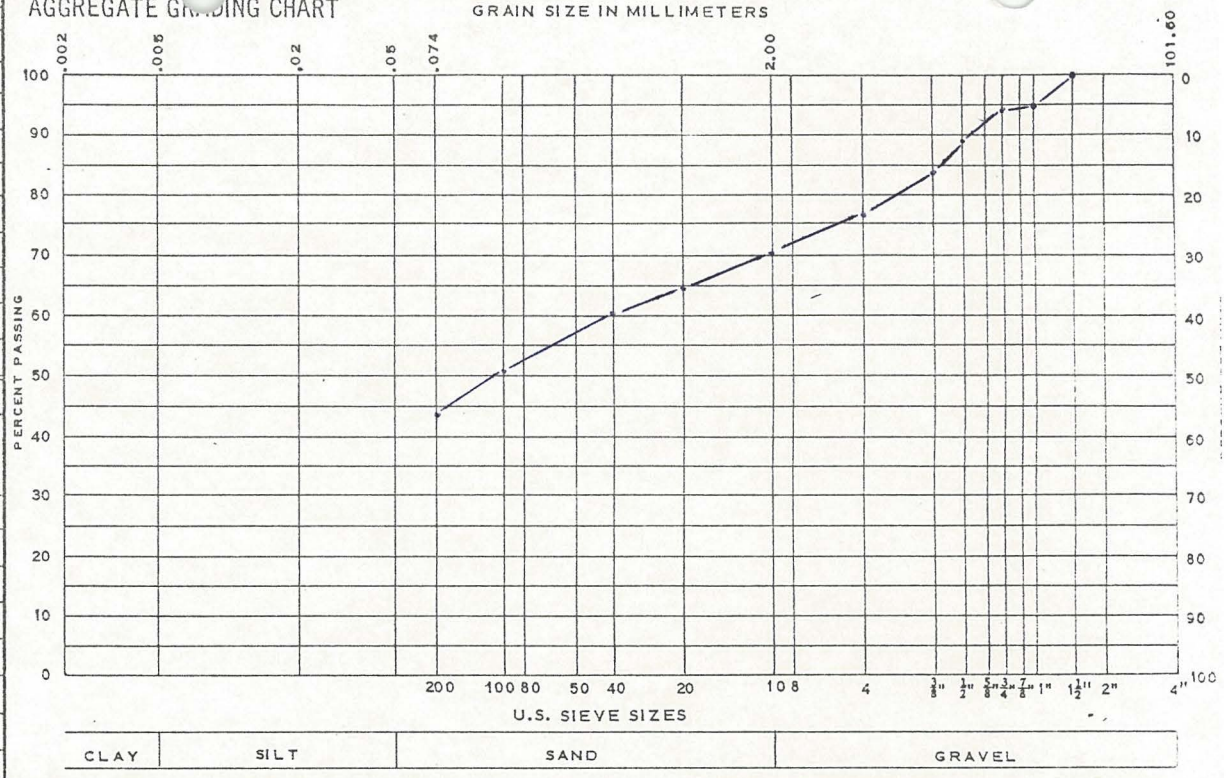
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
	SIEVE		% FINER	SIEVE				
100.0	1½"		70.1	#10				
94.9	1"		64.6	#20				
94.2	¾"		60.6	#40				
88.5	½"		50.8	#100				
83.6	⅜"		43.6	#200				
76.0	#4							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	15.8	14.0	1.8							
		ML										
		INORGANIC SILT AND FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 2140+00 ℄

HOLE No.: DEPTH: 3'-8'

SAMPLE TYPE: DATE SAMPLED: JUNE/69

FIELD SAMPLE No.: LAB SAMPLE No.: 208

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER — DATE: 6/9/70

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER — DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

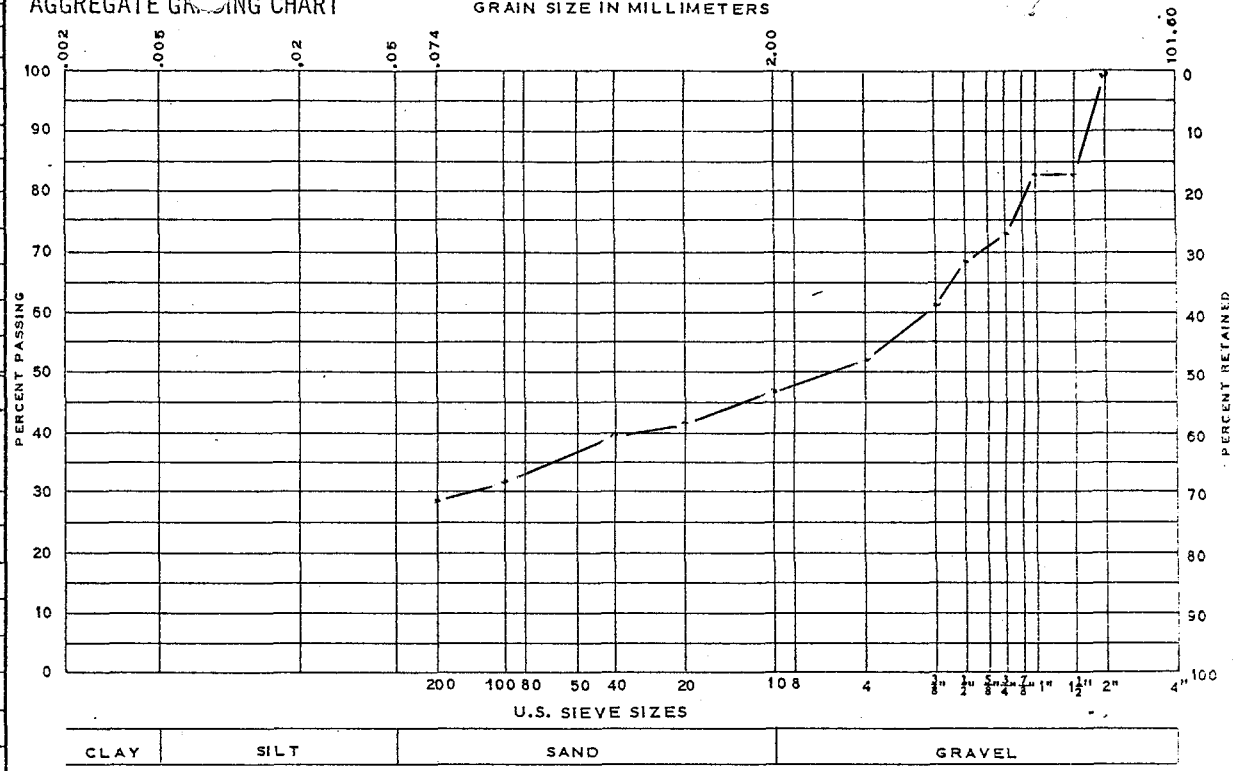
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	2"		46.5	#10					
83.1	1½"		42.3	#20					
83.1	1"		39.1	#40					
72.9	¾"		31.8	#100					
67.6	½"		28.5	#200					
60.7	⅜"								
52.4	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			15.9	15.3	0.6							
		A-2-4										
		SM										
		SILTY - SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT Dempster Highway Construction

LOCATION Sta. 2095+00

HOLE No. ____ DEPTH 5-10'

SAMPLE TYPE ____ DATE SAMPLED June/69

FIELD SAMPLE No. ____ LAB SAMPLE No. 205

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

3/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

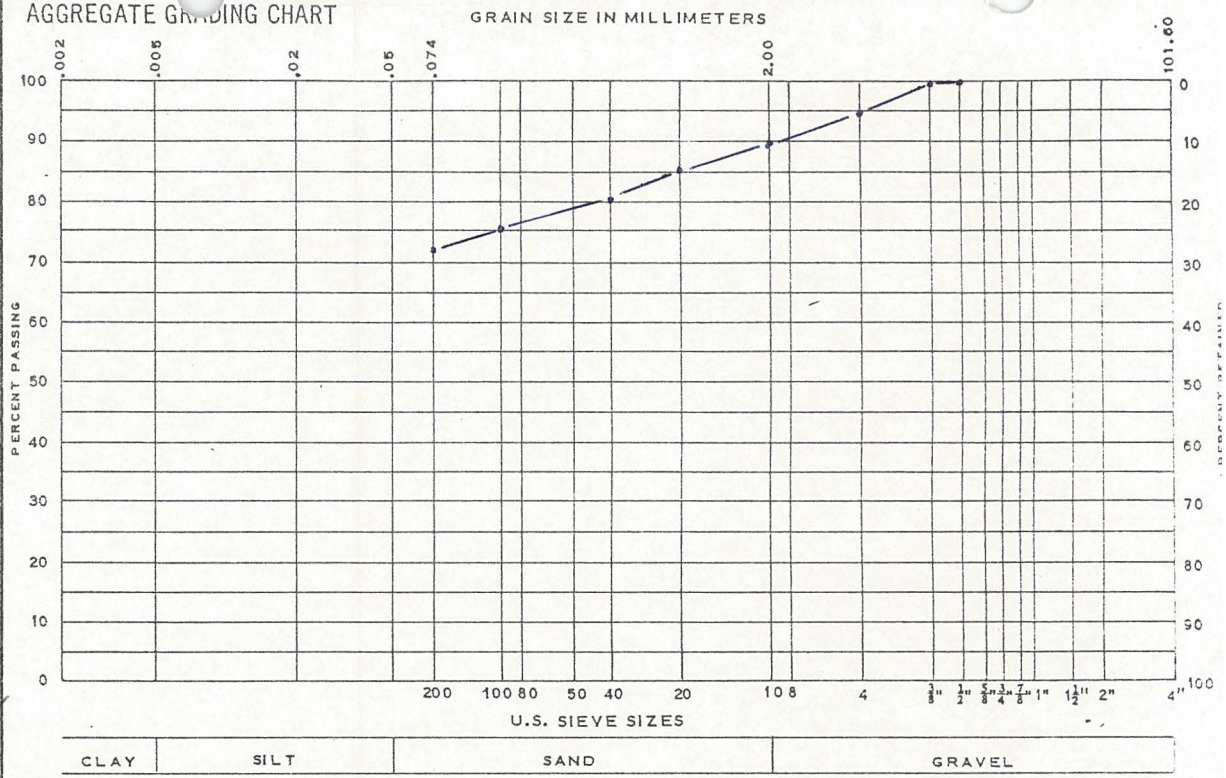
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE								
100.0	1½"								
99.2	⅜"								
94.7	#4								
89.5	#10								
85.4	#20								
80.8	#40								
75.5	#100								
72.6	#200								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4 27 17 10.3										
		CL										
		INORGANIC CLAY OF LOW TO MEDIUM PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: Dempster Highway Construction

LOCATION: STA. 2085+00 ℄

HOLE No. ..... DEPTH: 6'-13'

SAMPLE TYPE ..... DATE SAMPLED: June/69

FIELD SAMPLE No. ..... LAB SAMPLE No.: 210

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE: 6/9/70 SA

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

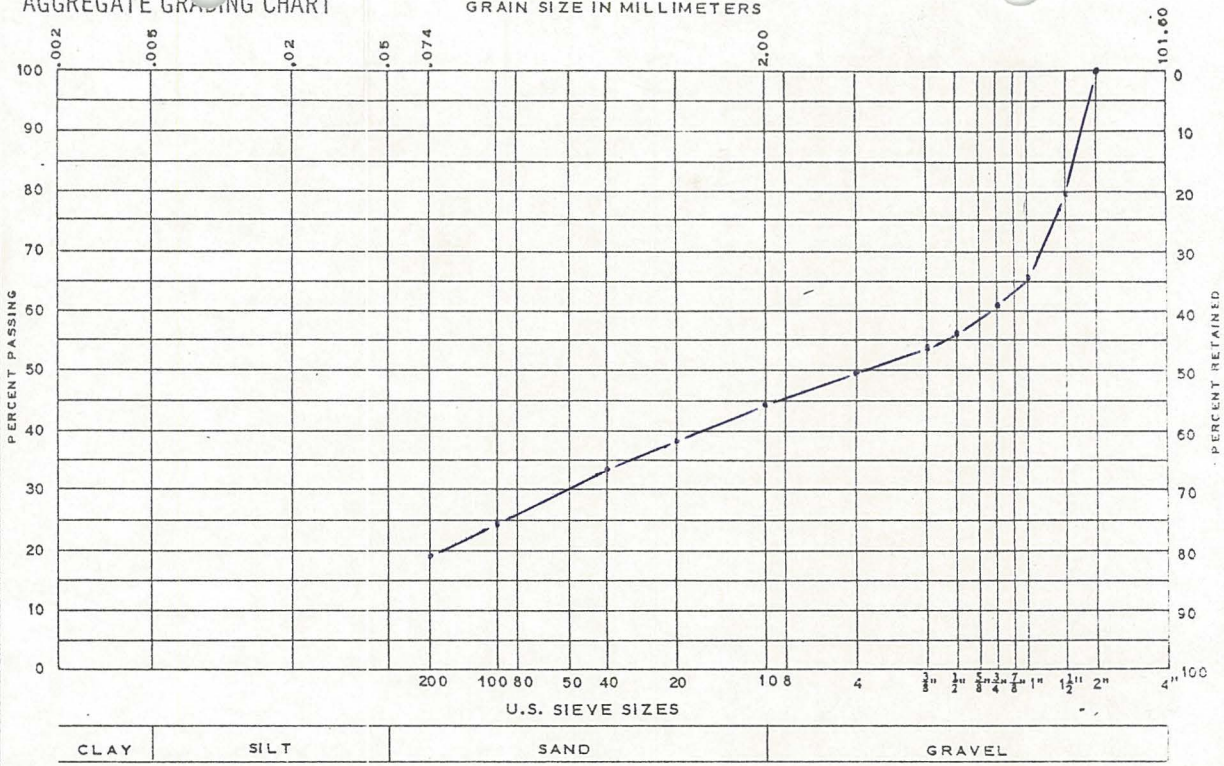
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	2"		44.2	#10					
79.8	1½"		38.4	#20					
65.9	1"		33.8	#40					
61.7	¾"		24.1	#100					
56.7	½"		18.9	#200					
53.8	⅜"								
49.9	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b			N.P.							
		GM										
		SILTY SAND AND GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA. 207+00 ℄

HOLE No. ..... DEPTH 6-14'

SAMPLE TYPE ..... DATE SAMPLED June/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 211

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/9/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

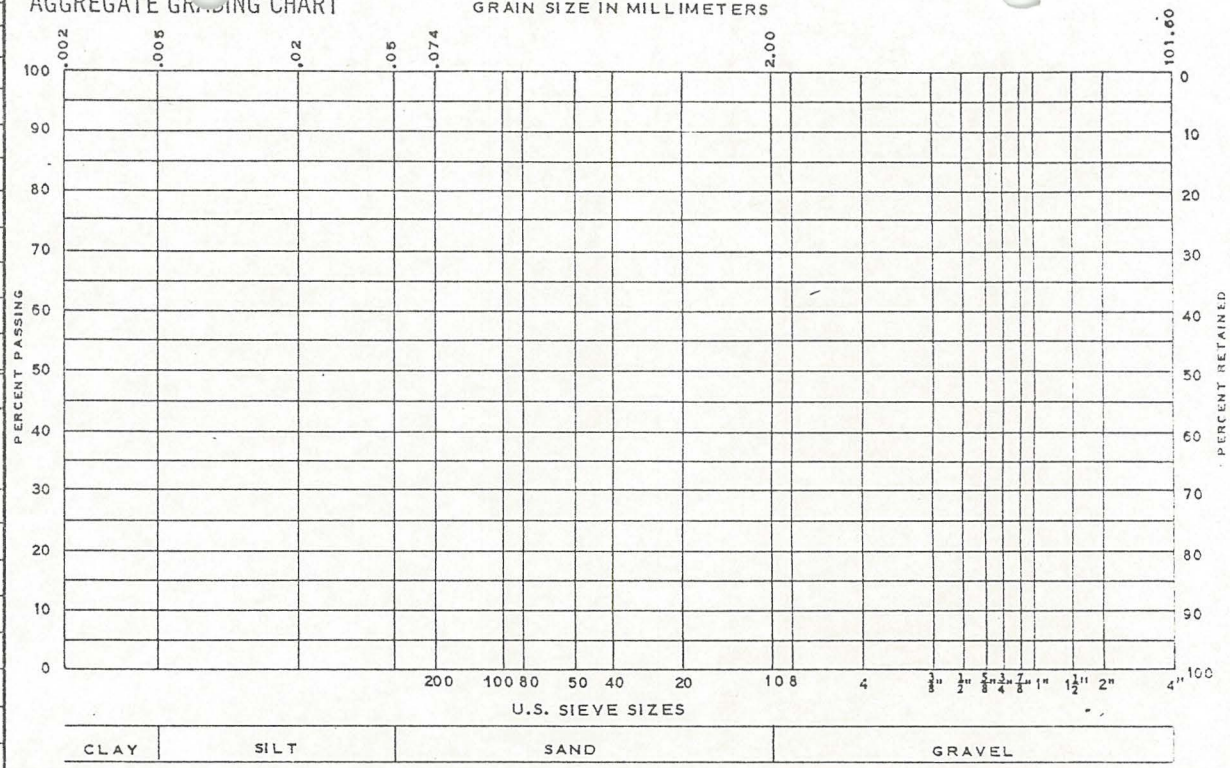
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		Pt										
		PEAT, HIGHLY ORGANIC SOIL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT Demster Highway Construction

LOCATION STA 2020+00

HOLE No. ..... DEPTH 8-11'

SAMPLE TYPE ..... DATE SAMPLED June/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 212

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER		% FINER	SIEVE					
	SIEVE								
100.0	2"		15.4	#10					
74.5	1½"		10.3	#20					
58.4	1"		7.1	#40					
48.5	¾"		4.5	#100					
39.4	½"		3.6	#200					
34.3	⅜"								
22.6	#4								

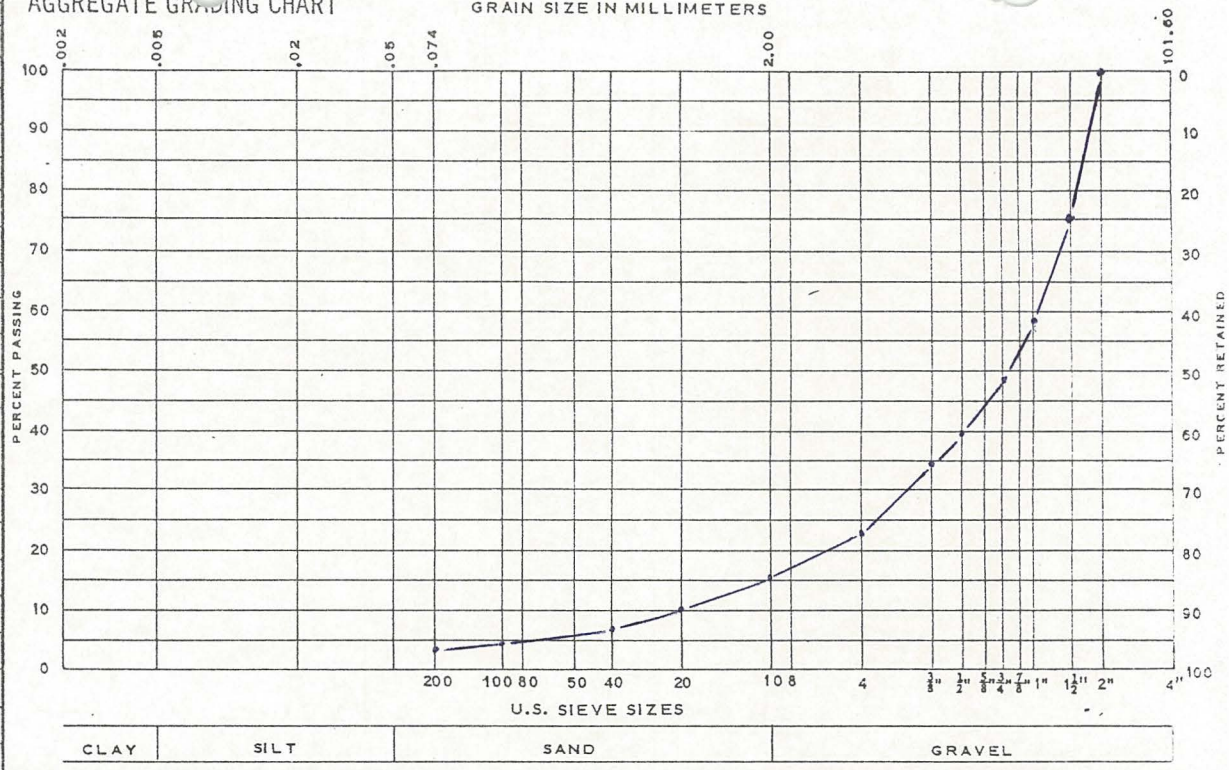
NOTE: INSUFFICIENT ~~SOIL~~ MATERIAL FOR FURTHER TESTING.

% + 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a										
		GW										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 2060+00

HOLE No. ..... DEPTH: 6-10'

SAMPLE TYPE ..... DATE SAMPLED: JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No.: 213

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/7/70
DATE

SA.

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

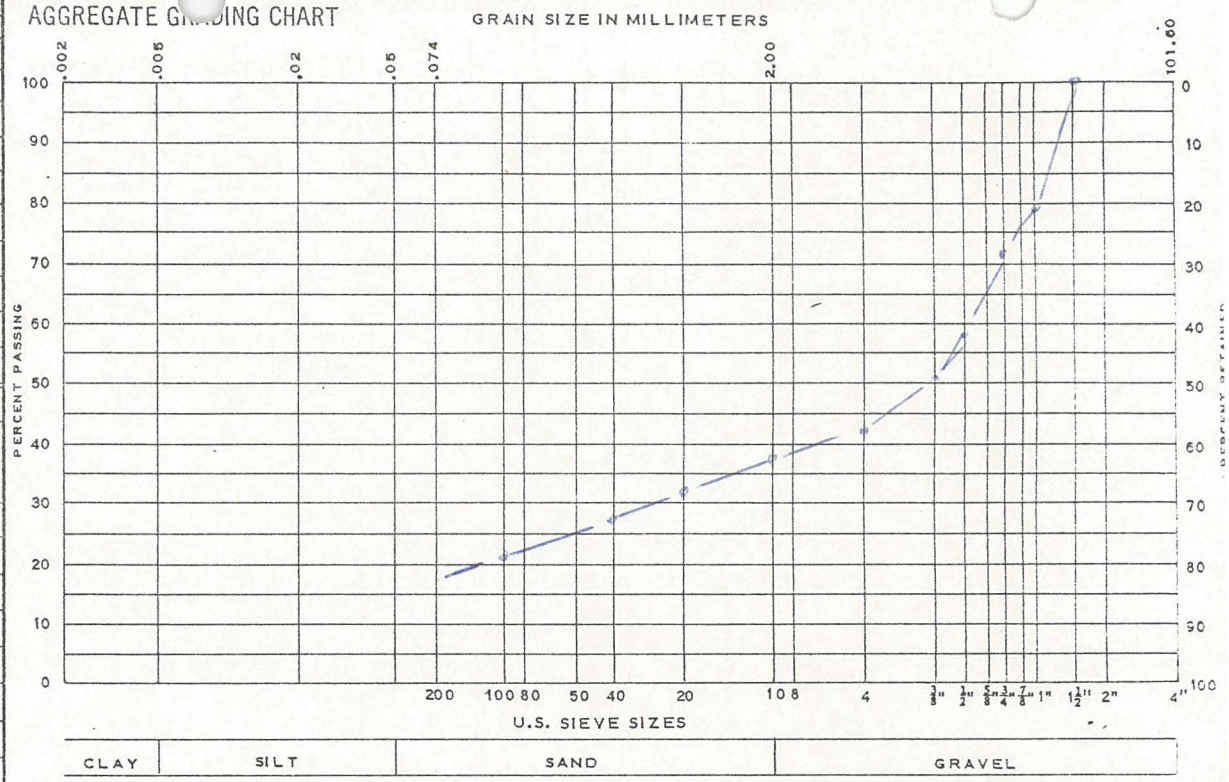
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER									
	SIEVE		% FINER	SIEVE						
100.0	1½"		37.1	#10						
79.3	1"		31.6	#20						
71.4	¾"		27.9	#40						
58.1	½"		21.3	#100						
50.9	⅜"		17.4	#200						
43.7	#4									
% + 4"										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b			00							
		GM										
		SILTY GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA. 2040+00 ℄

HOLE No. ..... DEPTH 9'-14'

SAMPLE TYPE ..... DATE SAMPLED June/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 214

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/9/70
DATE

SA

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

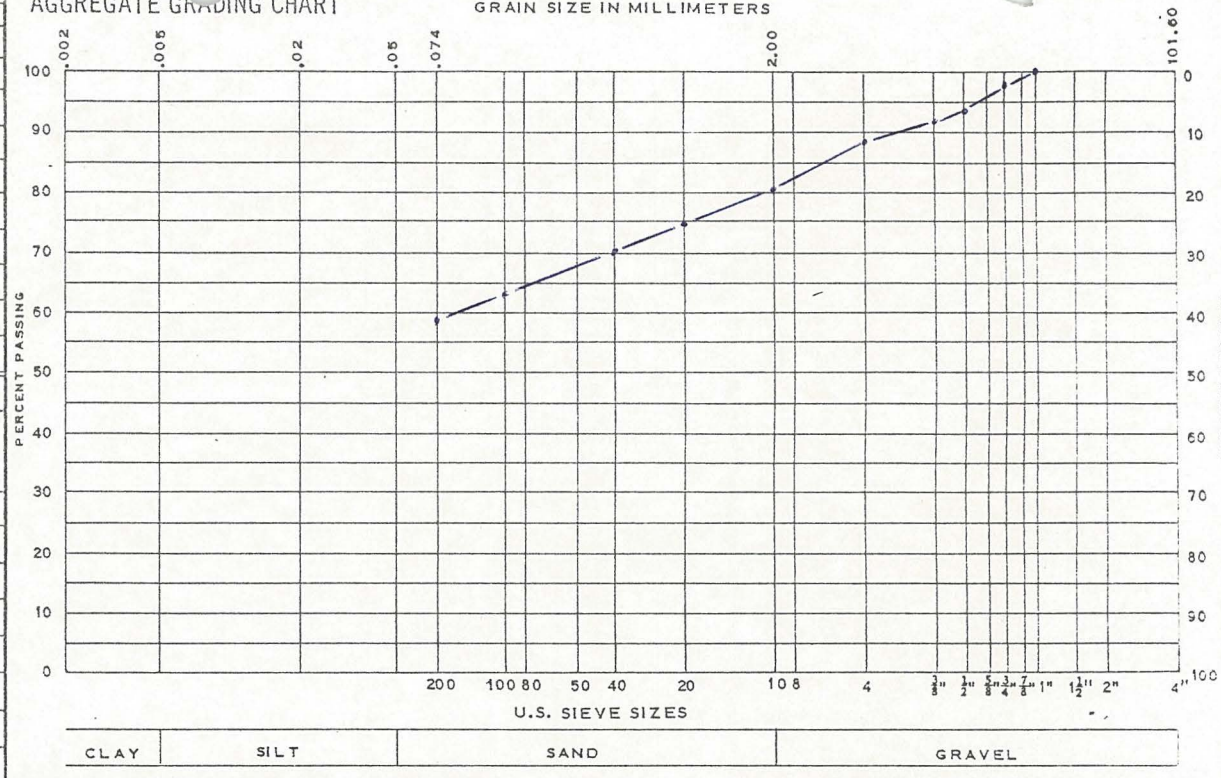
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER									
	SIEVE		% FINER	SIEVE						
100.0	1"		80.6	#10						
97.7	3/4		74.6	#20						
93.3	1/2		70.7	#40						
92.1	3/8		63.2	#100						
82.2	#4		57.9	#200						
% + 4"										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	23.3	N/A	5.9							
		ML										
		INORGANIC SILT AND FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 1970+00 ℄

HOLE No. ____ DEPTH: 5-9'

SAMPLE TYPE ____ DATE SAMPLED: JUNE/69

FIELD SAMPLE No. ____ LAB SAMPLE No. 215

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

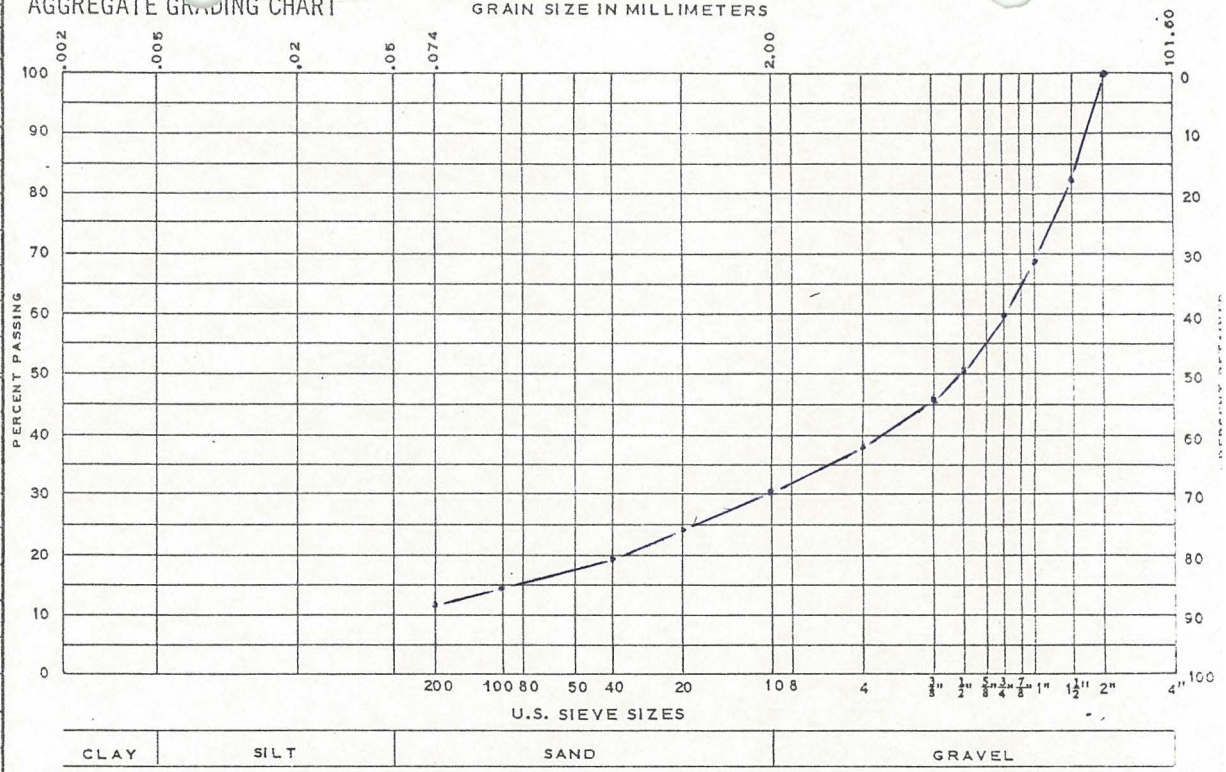
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	2"		30.3	#10					
82.2	1 1/2"		29.0	#20					
68.5	1"		19.9	#40					
59.6	3/4"		14.5	#100					
50.2	1/2"		12.1	#200					
45.9	3/8"								
38.2	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		GW										
		WELL-GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA 1960+00 ℄

HOLE No. ____ DEPTH: 3'-9'

SAMPLE TYPE ____ DATE SAMPLED: June/69

FIELD SAMPLE No. ____ LAB SAMPLE No.: 216

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

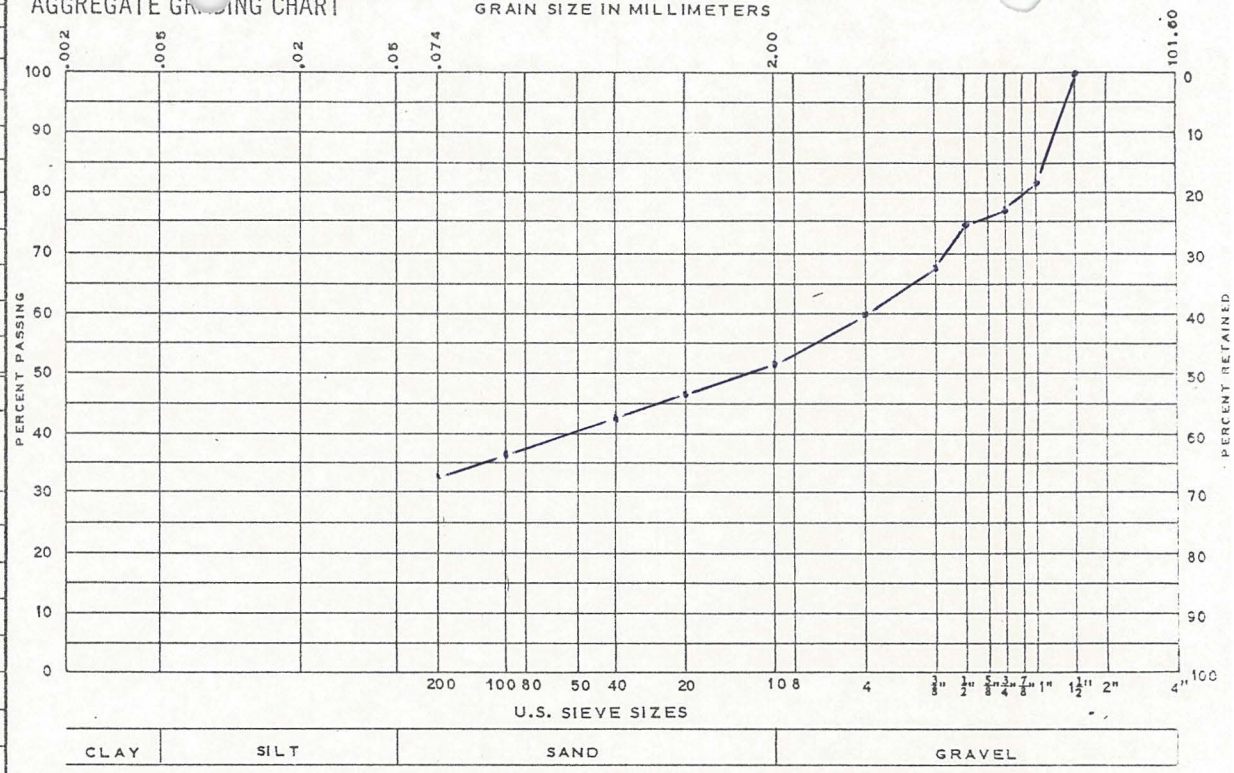
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
	SIEVE		% FINER	SIEVE				
100.0	1½"		51.9	#10				
81.5	1"		46.1	#20				
76.8	¾"		42.7	#40				
74.9	½"		36.6	#100				
67.5	⅜"		32.9	#200				
59.5	#4							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-2-4	21.5	N.P.	3.8							
		SM										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT Dempster Highway Construction

LOCATION Sta. 1930+00 ℄

HOLE No. ..... DEPTH 4-10'

SAMPLE TYPE ..... DATE SAMPLED June/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 217

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/4/70
DATE

EX

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	> 75% PASSING #200								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4 CL LO PLASTIC INORGANIC CLAY	26.5	18.5	8.0							

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .05 .074 2.00 101.60

PERCENT PASSING: 100 90 80 70 60 50 40 30 20 10 0

0 10 20 30 40 50 60 70 80 90 100

200 100 80 50 40 20 10 8 4 3/8" 1/2" 5/8" 3/4" 7/8" 1" 1 1/2" 2" 4"

U.S. SIEVE SIZES

CLAY | SILT | SAND | GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 1925+00 E 1920+00

HOLE No. ____ DEPTH 5'-15', 7'-12'

SAMPLE TYPE ____ DATE SAMPLED JUNE 1/69

FIELD SAMPLE No. ____ LAB SAMPLE No. 218, 220

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/4/70
DATE

EA

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

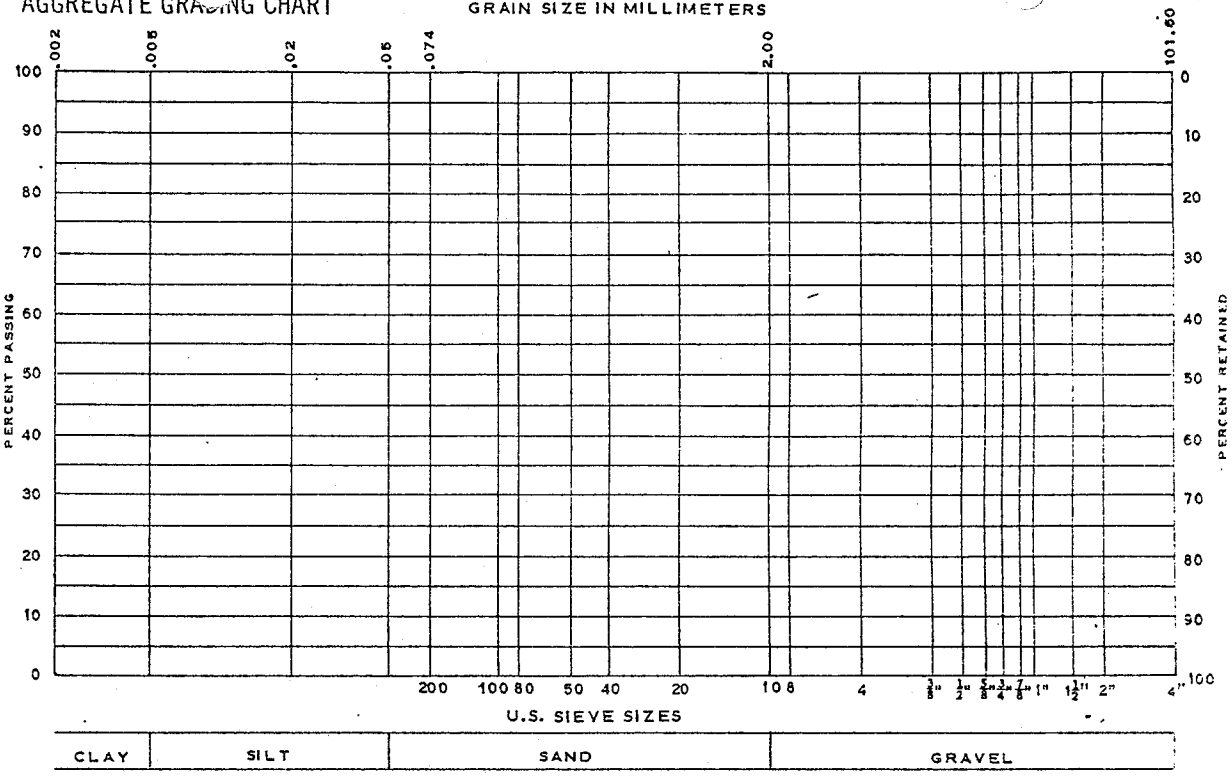
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS — SAMPLE NUMBER							
	>75% PASSING # 200							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY CONSTRUCTION

LOCATION STA. 1920+00

HOLE No. ..... DEPTH 5'-7'

SAMPLE TYPE ..... DATE SAMPLED JUNE 69

FIELD SAMPLE No. ..... LAB SAMPLE No. 219

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

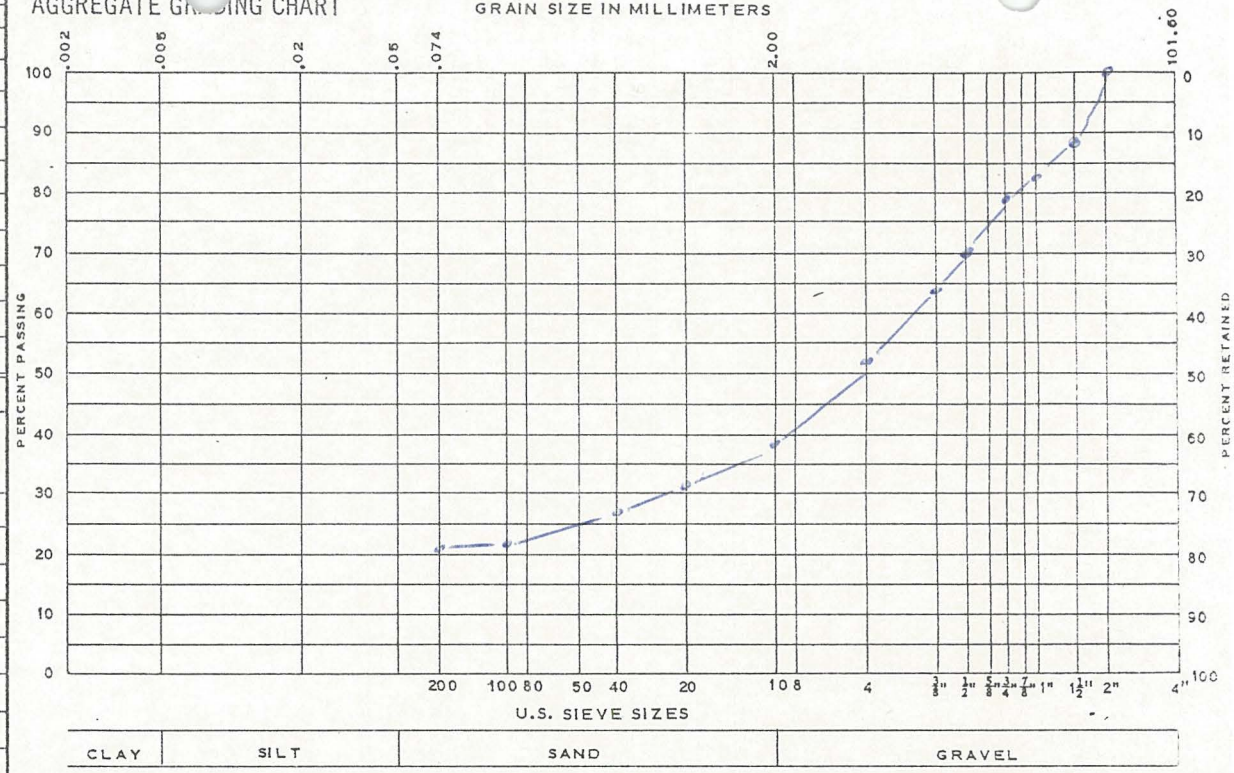
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
102.0	2"		37.7	#10					
87.3	1½"		31.1	#20					
83.8	1"		26.8	#40					
79.0	¾"		23.3	#100					
70.0	½		20.8	#200					
64.7	⅜								
51.1	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a(0) SM ~~SILTY~~ SILT SAND MIXTURE	25.6	20.9	5.2							

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 1915+00

HOLE No. ____ DEPTH: 3-10'

SAMPLE TYPE ____ DATE SAMPLED: JUNE/69

FIELD SAMPLE No. ____ LAB SAMPLE No.: 221

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/4/70
DATE

EA.

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

JD 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

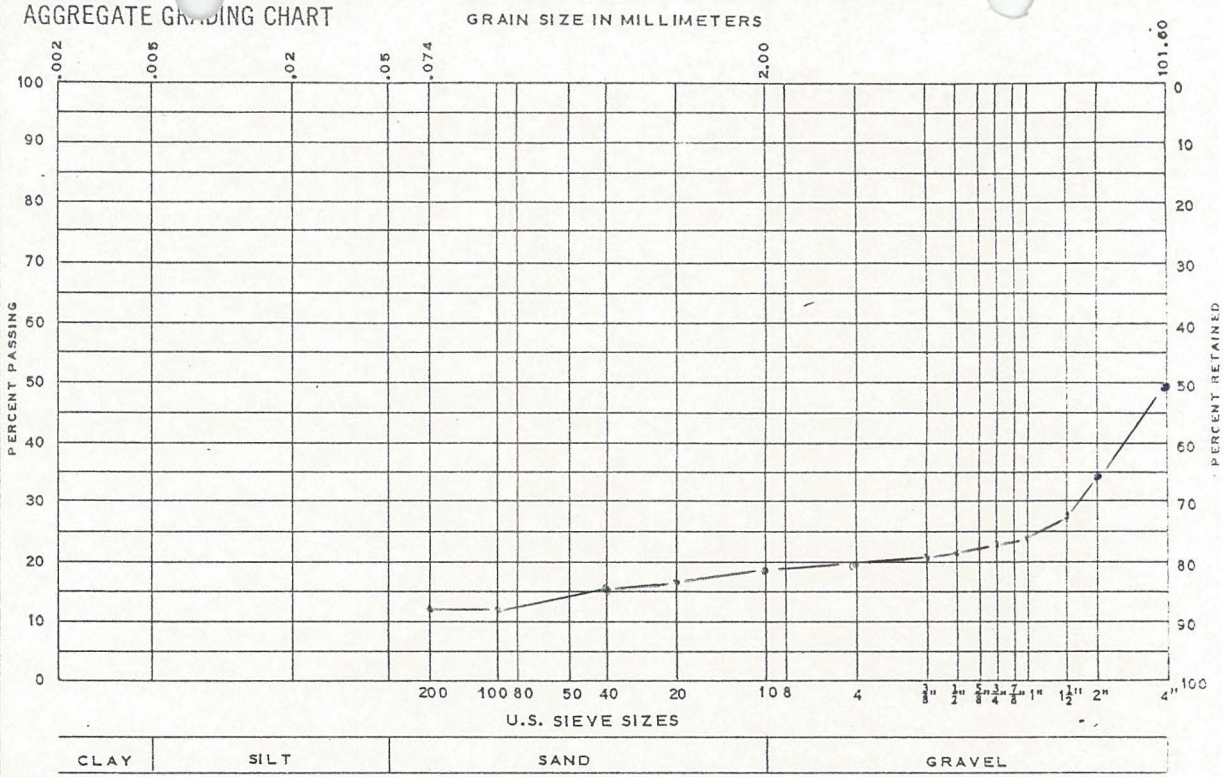
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	6		20.9	3/8					
76.2	5		19.6	#4					
49.4	4		18.2	#10					
39.9	3		16.6	#20					
34.7	2		15.3	#40					
27.4	1 1/2		12.3	#100					
23.7	1		12.1	#200					
22.7	3/4								
21.7	1/2								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		GM										
		~~de~~ SILTY GRAVEL.										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 1890 + 00

HOLE No. ..... DEPTH 2'-5'

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 222

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

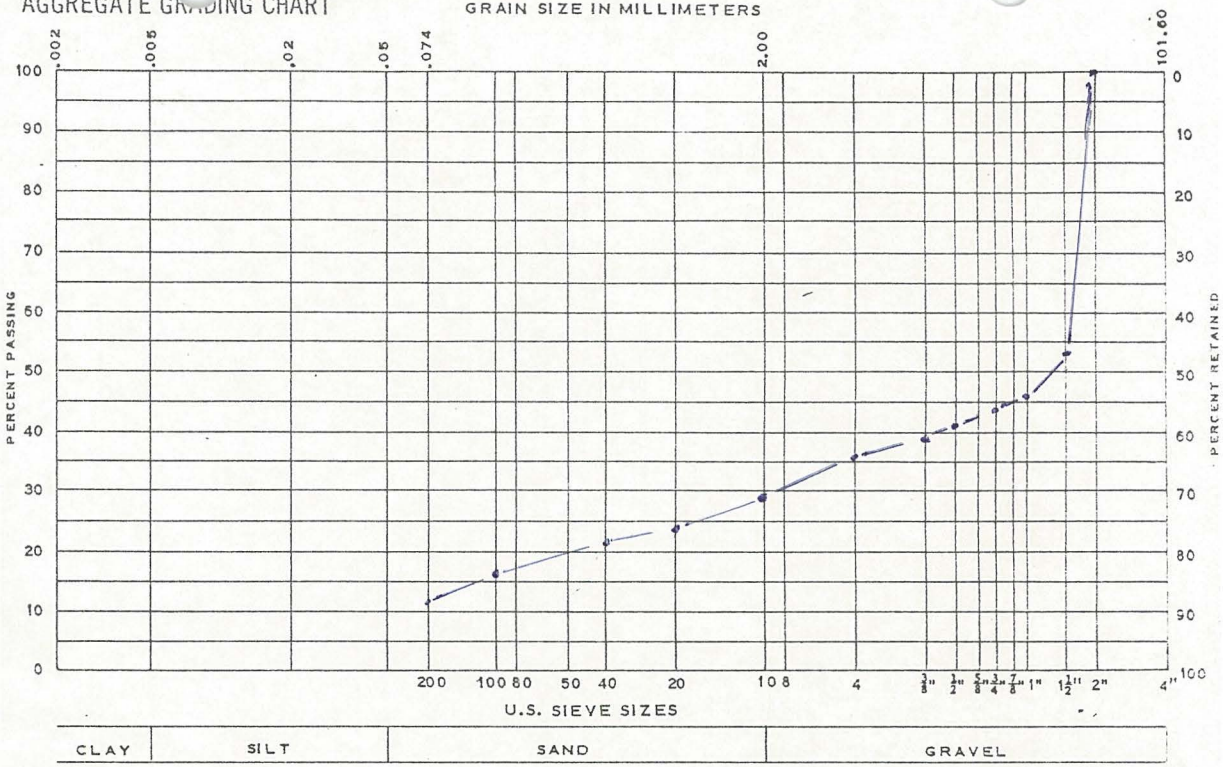
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	2		29.9	#10					
53.9	1 1/2		25.7	#20					
	1		22.5	#40					
45.3	3/4		15.7	#100					
44.6	1/2		12.3	#200					
42.3	3/8								
39.4	#4								
34.1									
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG 504 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a 26.7 22.5 4.2										
		SM.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 1875+00

HOLE No. DEPTH 2'-11'

SAMPLE TYPE DATE SAMPLED JUNE/69

FIELD SAMPLE No. LAB SAMPLE No. 223

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

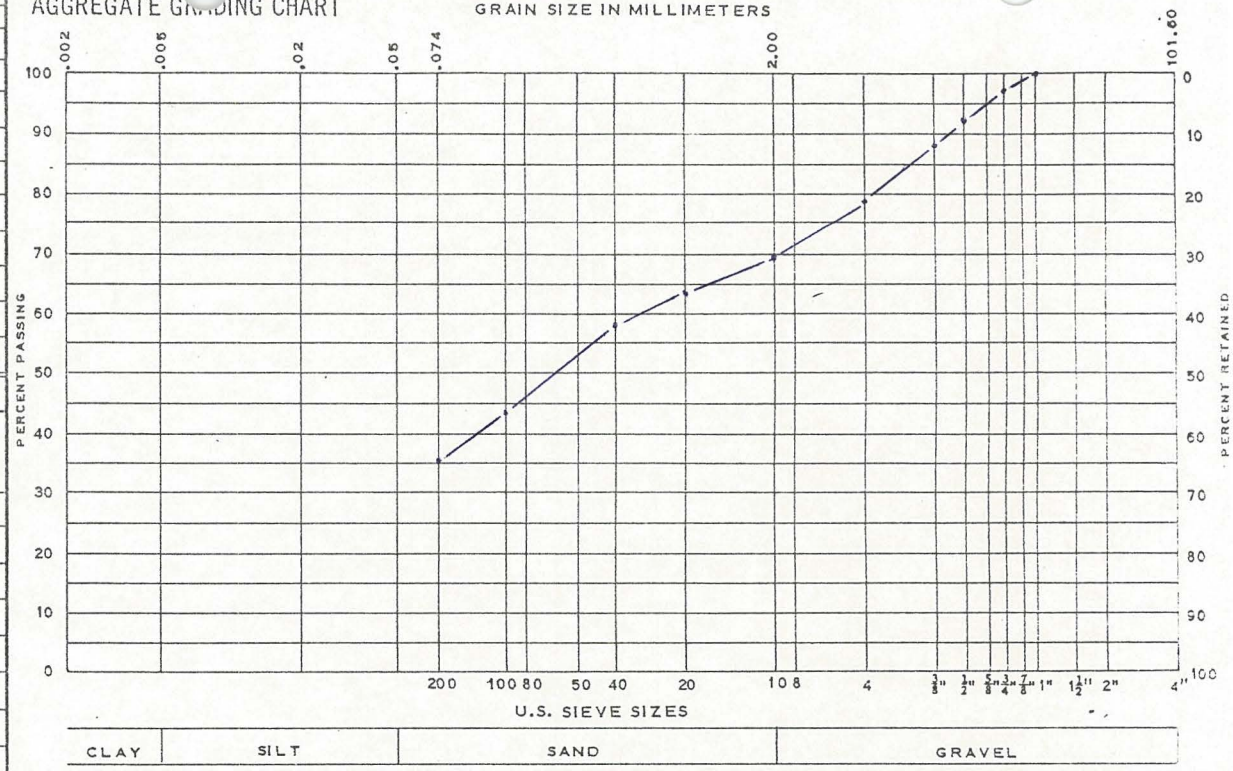
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
	SIEVE		% FINER	SIEVE				
100.0	1"		69.8	#10				
97.1	3/4		63.2	#20				
92.5	1/2		57.8	#40				
87.7	3/8		43.3	#100				
78.6	#4		35.7	#200				
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			24	22	2.0							
		A-2-4										
		SM										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 1870+00 ℄

HOLE No.: DEPTH: 6'-12'

SAMPLE TYPE: DATE SAMPLED: JUNE '69

FIELD SAMPLE No.: LAB SAMPLE No.: 224

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

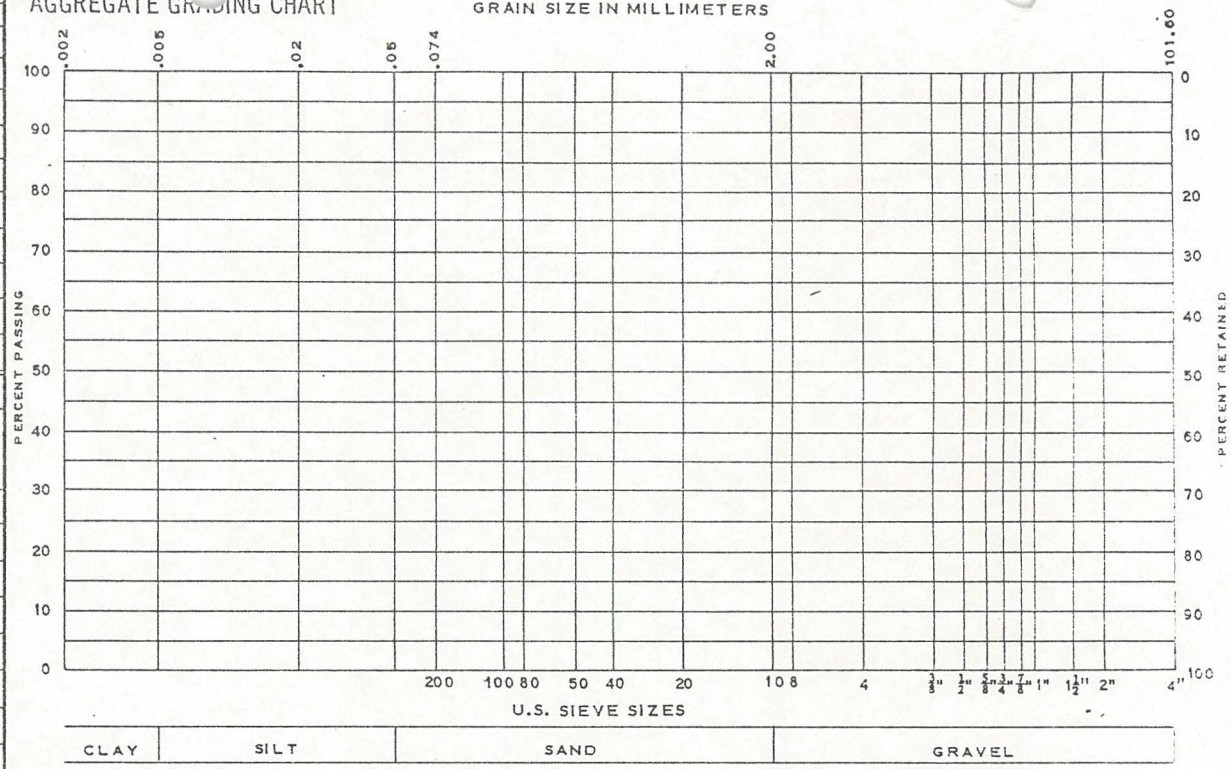
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
		> 75% PASSING #200.							
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4 (8) 28	5	21	7	3						
		CL										
		LO PLASTIC INORGANIC CLAY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 1186E +00

HOLE No. ..... DEPTH 9' - 12'

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 225

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

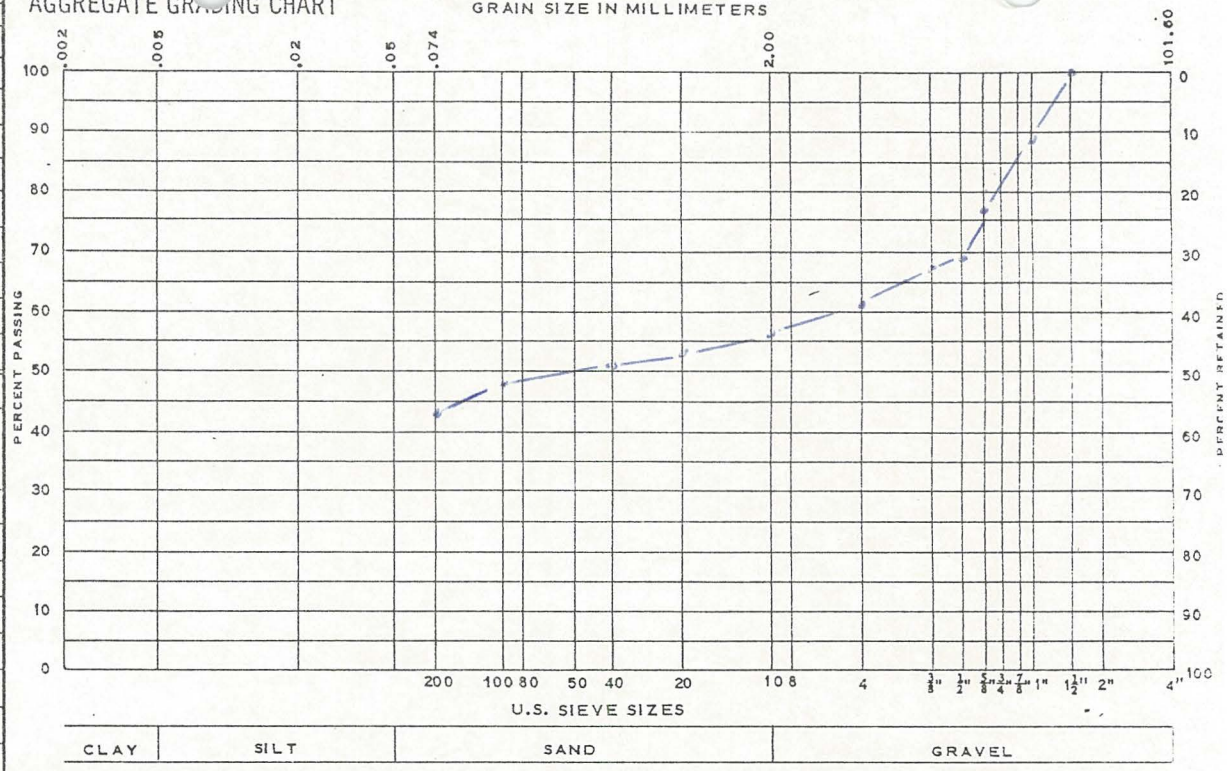
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER									
	SIEVE		% FINER	SIEVE						
100.0	1 1/2		56.3	#10						
89.7	1		53.2	#20						
76.1	3/4		51.0	#40						
68.8	1/2		47.1	#100						
67.1	3/8		43.7	#200						
60.3	#4									
% + 4"										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4 SC-SM CLAYEY SILTY SAND	26.2	20.0	6.2							

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 1865+00

HOLE No. ..... DEPTH 12'-17'

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 226

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

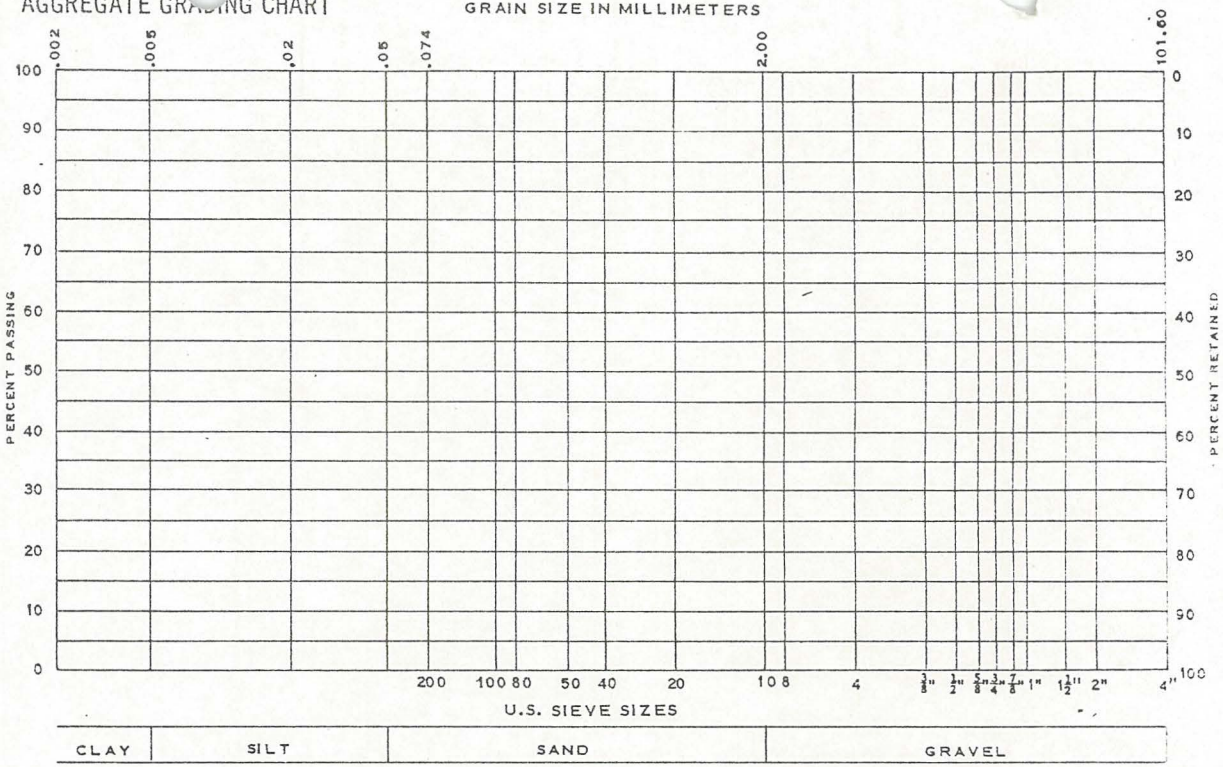
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	> 75% PASSING #200								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	26.4	23.0	3.4							
		ML										
		LO PLASTIC INORGANIC SILT.										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STN: 1860 +00

HOLE No. ____ DEPTH 6' - 13'

SAMPLE TYPE ____ DATE SAMPLED JUNE/69

FIELD SAMPLE No. ____ LAB SAMPLE No. 227

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ____ DATE ____

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ____ DATE ____

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

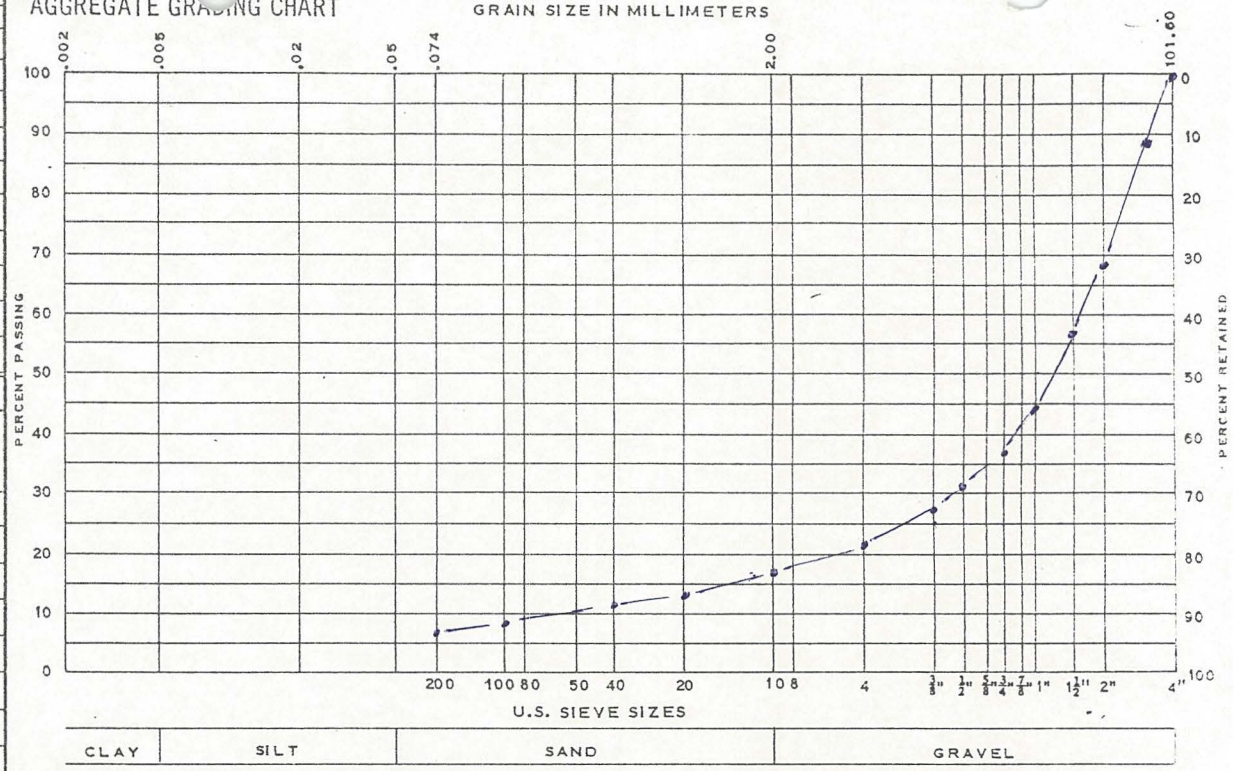
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER									
	SIEVE		% FINER	SIEVE						
100.0	4		17.1	#10						
88.9	3		13.7	#20						
66.7	2		11.7	#40						
56.5	1 1/2		8.7	#100						
44.8	1		7.2	#200						
37.4	3/4									
31.0	1/2									
38.6	3/8									
22.3	#4									
% + 4"										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a.			0.0							
		GW-GM.										
		WELL GRADED SILTY GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 1850+00 & STA 1845+00

HOLE No. ..... DEPTH 4'-9' & ??

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 228 & 229

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ____ DATE ____

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ____ DATE ____

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

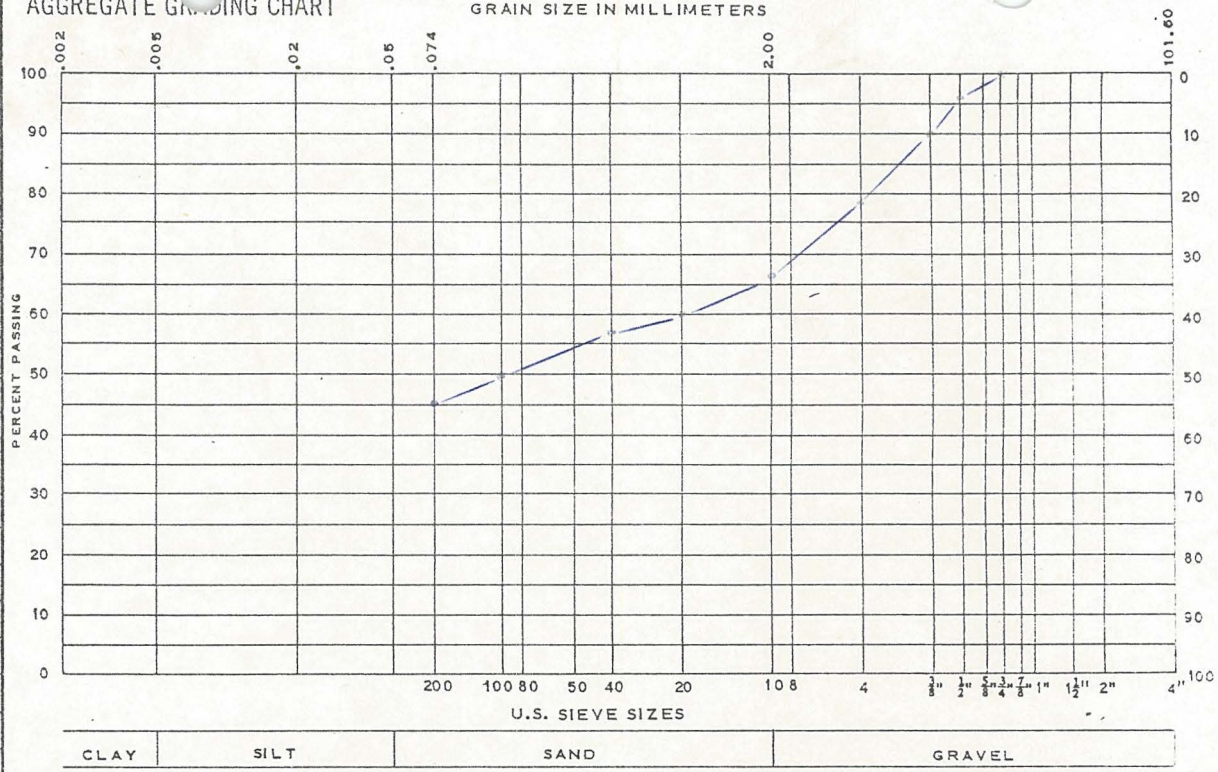
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE								
100.0	3/4"								
95.5	1/2"								
90.1	3/8"								
77.7	# 4								
66.4	# 10								
60.0	# 20								
56.7	# 40								
50.2	# 100								
45.4	# 200								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		24.7/19.3 5.4										
		A-4										
		SM-SC										
		SILTY-SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 1835+00

HOLE No.: DEPTH: 2'-12'

SAMPLE TYPE: DATE SAMPLED: JUNE/69

FIELD SAMPLE No.: LAB SAMPLE No.: 230

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER — DATE: 6/4/70

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER — DATE

HD 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER		% FINER	SIEVE
100.0	SIEVE		81.7	#10
98.7	3/4"		76.4	#20
95.4	1/2"		73.0	#40
88.4	3/8"		66.8	#100
	#4		62.7	#200

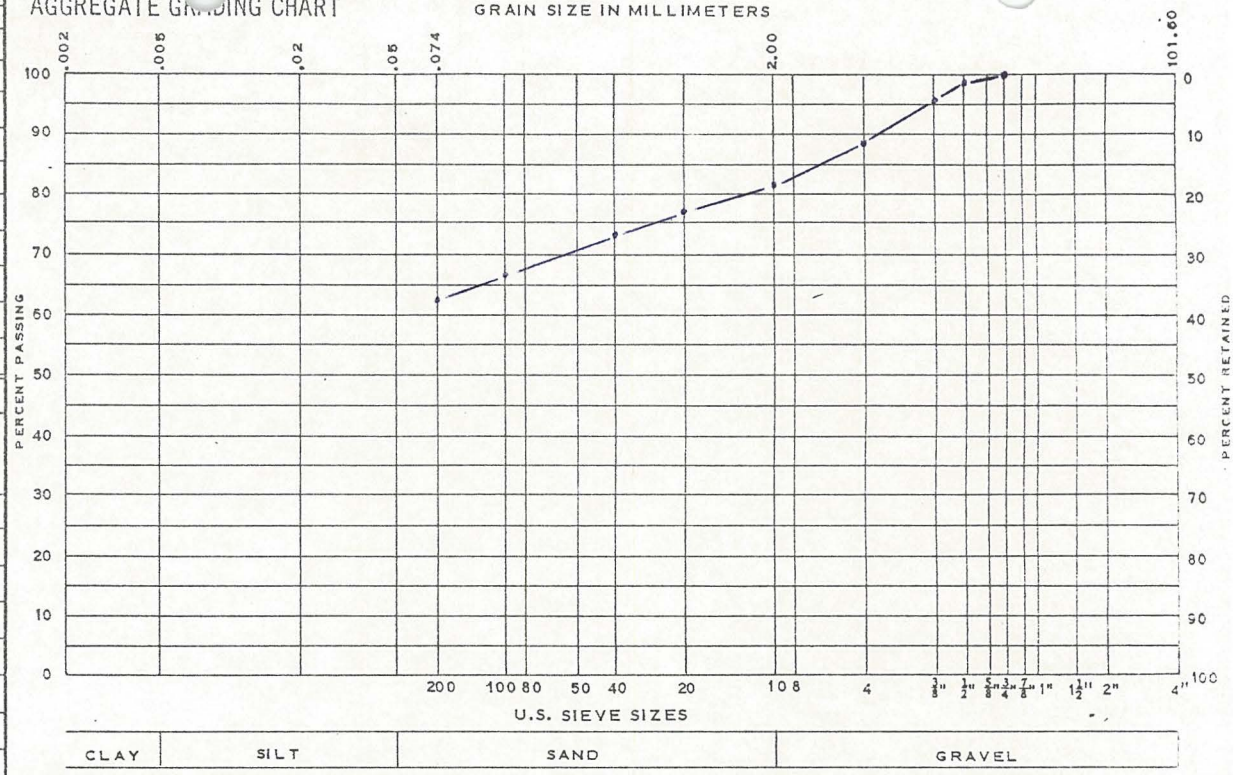
% + 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4			00							
		ML										

INORGANIC SILT AND FINE SAND

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA. 182540 ℄

HOLE No. ..... DEPTH 7'-9'

SAMPLE TYPE ..... DATE SAMPLED June/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 231

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/8/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

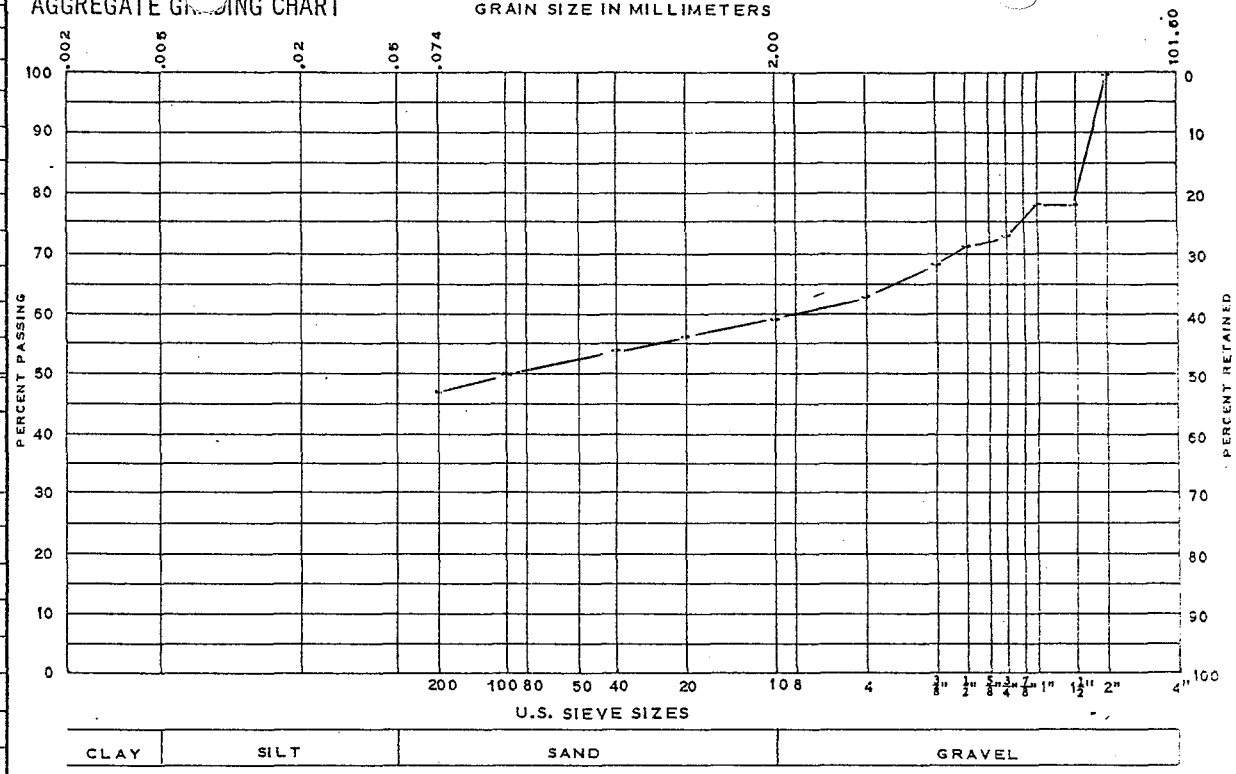
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER SIEVE	% FINER	SIEVE
100.0	2	59.0	#10
77.8	1½	56.0	#20
77.8	1	54.0	#40
73.3	⅜	49.9	#100
70.9	½	47.3	#200
67.9	⅜		
63.0	#4		
% + 4"			

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		23.7 18 5 4.3										
		A-4										
		S M-SC										
		INORGANIC SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA. 1820+00

HOLE No. ..... DEPTH 2'-6'

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 232

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

3/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

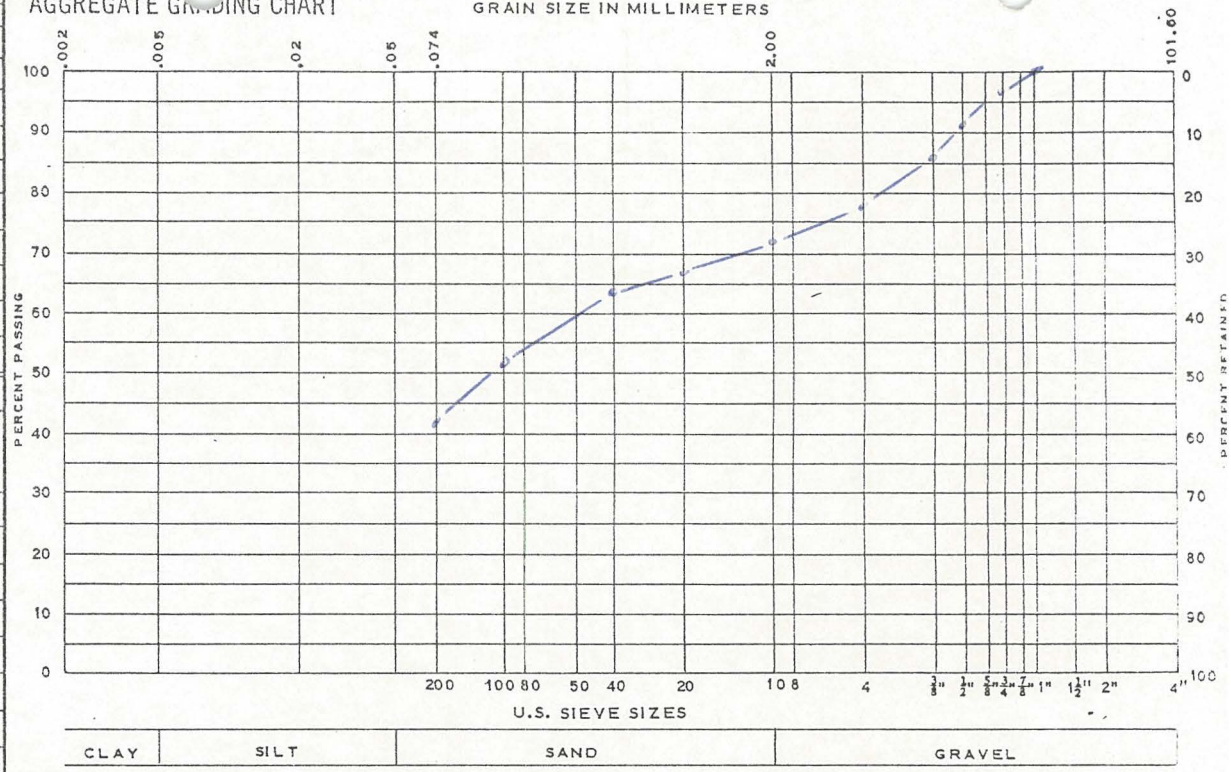
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	1		73.2	#10					
97.5	3/4		68.4	#20					
90.1	1/2		64.3	#40					
85.3	3/8		51.1	#100					
78.7	#4		43.3	#200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	24.3	20.7	3.6							
		SM										
		SILT SAND MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT Dempster Highway Construction

LOCATION Sta. 1795+00 ℄

HOLE No. ____ DEPTH 6'-10'

SAMPLE TYPE ____ DATE SAMPLED June/6?

FIELD SAMPLE No. ____ LAB SAMPLE No. 233

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/9/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

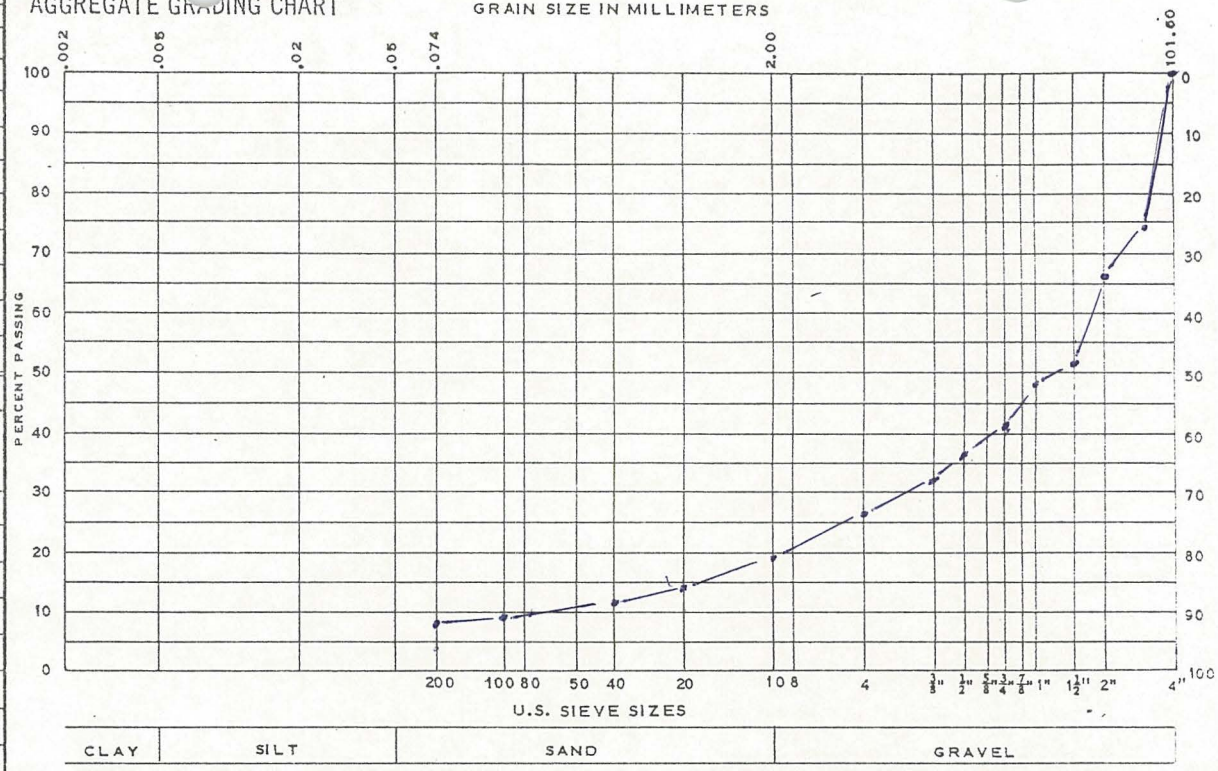
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER		% FINER	SIEVE					
100.0	4		19.4	#10					
74.1	3		14.8	#20					
65.5	2		12.6	#40					
51.2	1½		9.9	#100					
47.4	1		8.8	#200					
41.7	¾								
36.9	½								
32.5	⅜								
25.7	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
					N.D							
		A-1-a										
		GW-GM										
		WELL GRADED SILTY GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STN 1775+00

HOLE No.: DEPTH: 2'-9"

SAMPLE TYPE: DATE SAMPLED: JUNE/69

FIELD SAMPLE No.: LAB SAMPLE No.: 234

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER — DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER — DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

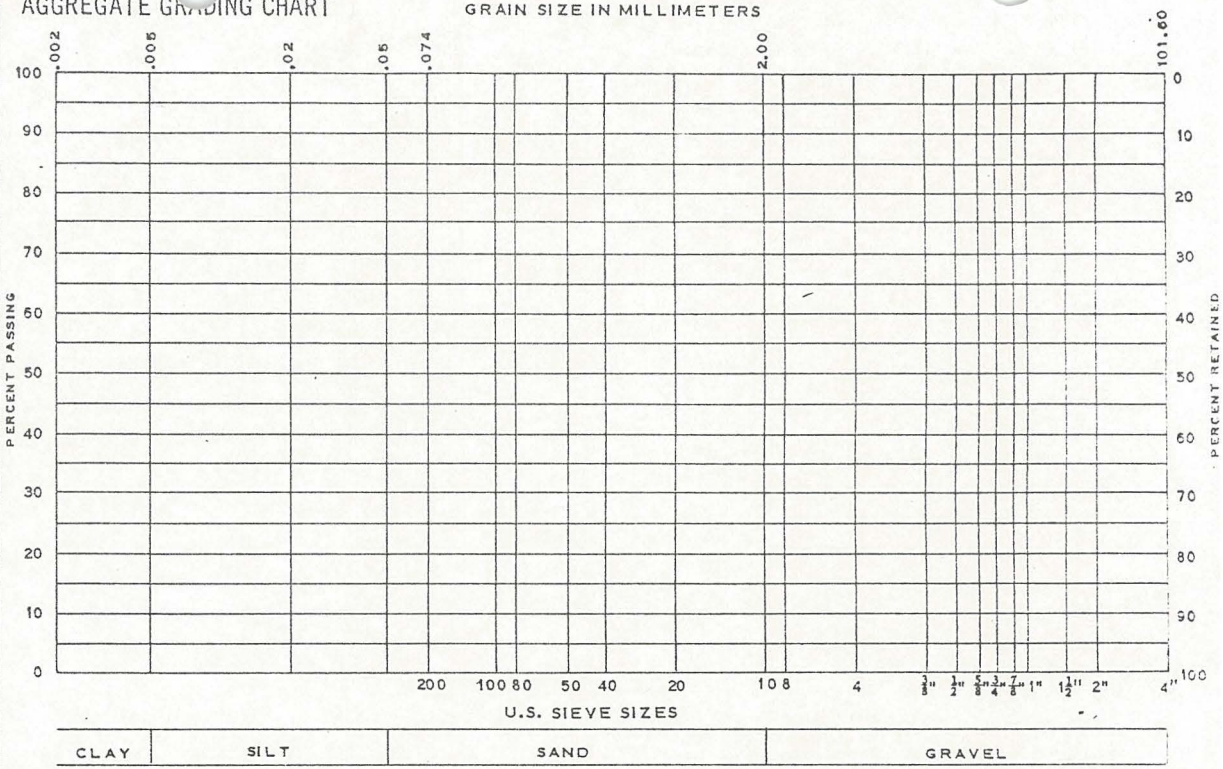
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		Pt.										
		PEAT, HIGHLY ORGANIC SOIL.										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA. 175500

HOLE No. ..... DEPTH 11-15'

SAMPLE TYPE ..... DATE SAMPLED June/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 235

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

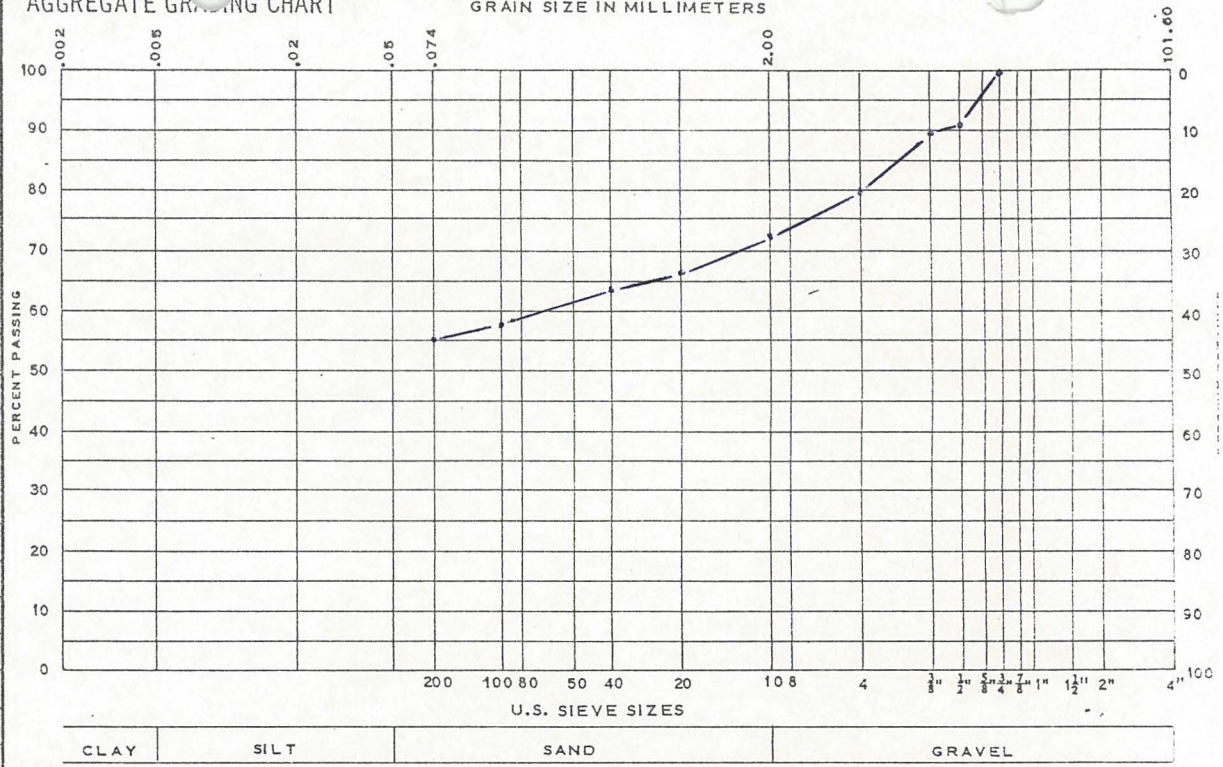
SHEET ___ OF ___

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE	% FINER	SIEVE						
100.0	3/4"	72.2	#10						
91.8	1/2"	66.5	#20						
89.1	3/8"	63.0	#40						
79.8	#4	57.4	#100						
		55.1	#200						
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	29.4	23.7	5.7							
		ML										
		INORGANIC SILT AND FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA. 1245+00 ℄

HOLE No. ____ DEPTH 7-12'

SAMPLE TYPE ____ DATE SAMPLED JUNE/69

FIELD SAMPLE No. ____ LAB SAMPLE No. 236

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

HD 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

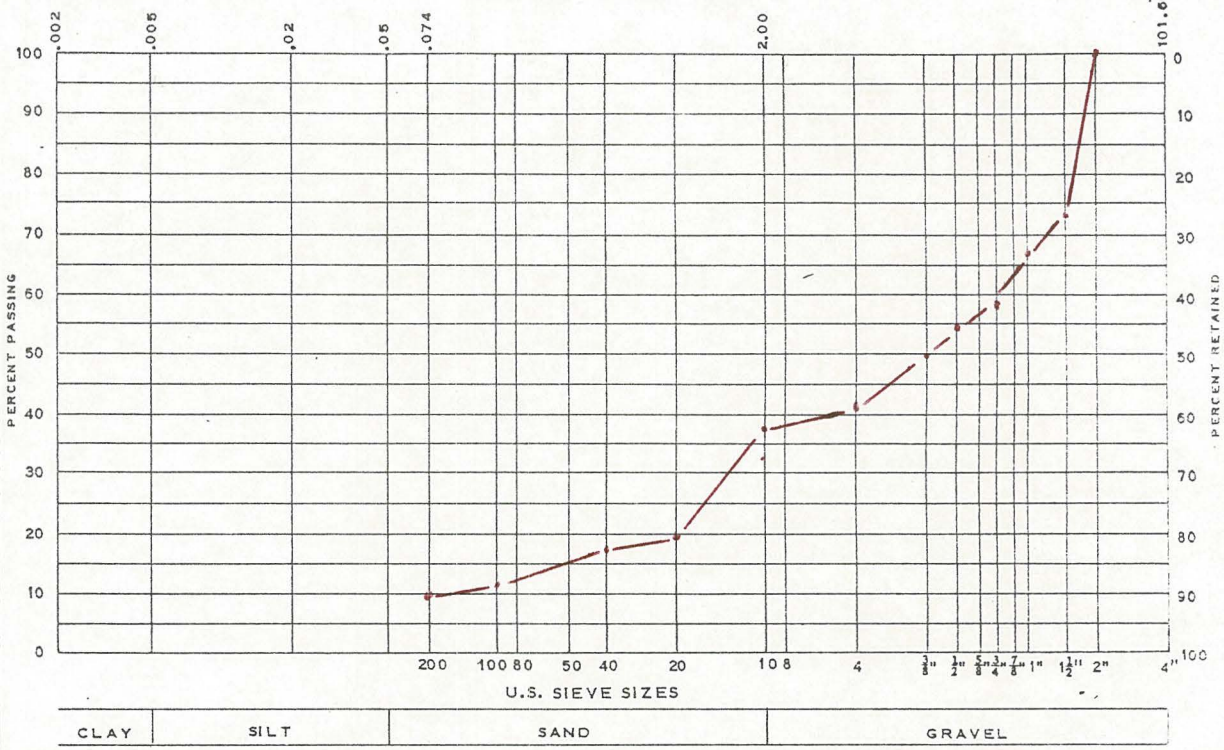
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% of FINER	SIEVE					
100.0	2		32.3	#10					
72.8	1½		19.9	#20					
66.0	1		17.2	#40					
58.3	¾		11.5	#100					
54.0	½		9.6	#200					
49.8	⅜								
41.6	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			6.0							
		GW										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 1740+00

HOLE No. ..... DEPTH 6-11'

SAMPLE TYPE ..... DATE SAMPLED June 69

FIELD SAMPLE No. ..... LAB SAMPLE No. 237

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

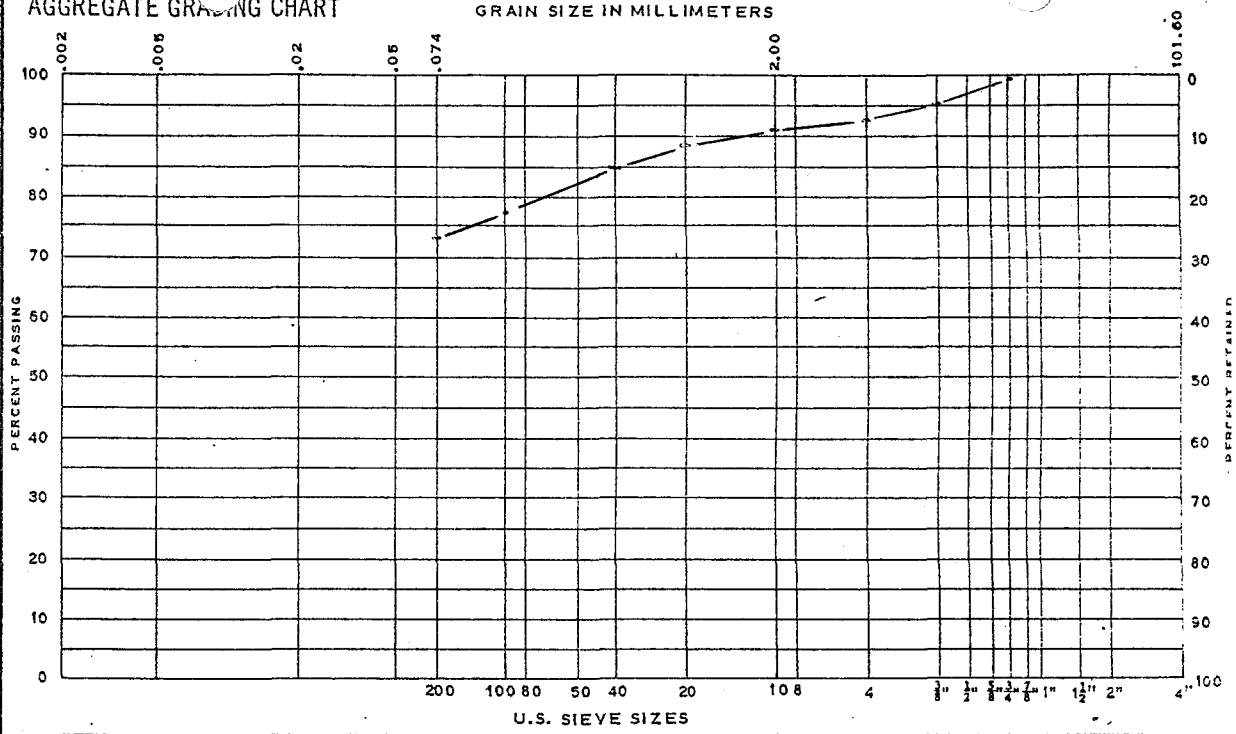
% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER SIEVE	% FINER	SIEVE
100.0	3/4"	90.8	10
95.5	1/2"	87.6	20
95.5	3/8"	84.9	40
92.9	#4	77.3	100
		72.9	200

% + 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY CONSTRUCTION

LOCATION STA. 1720+00

HOLE No. ..... DEPTH 4'-12'

SAMPLE TYPE ..... DATE SAMPLED JUNE '69

FIELD SAMPLE No. ..... LAB SAMPLE No. 238

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

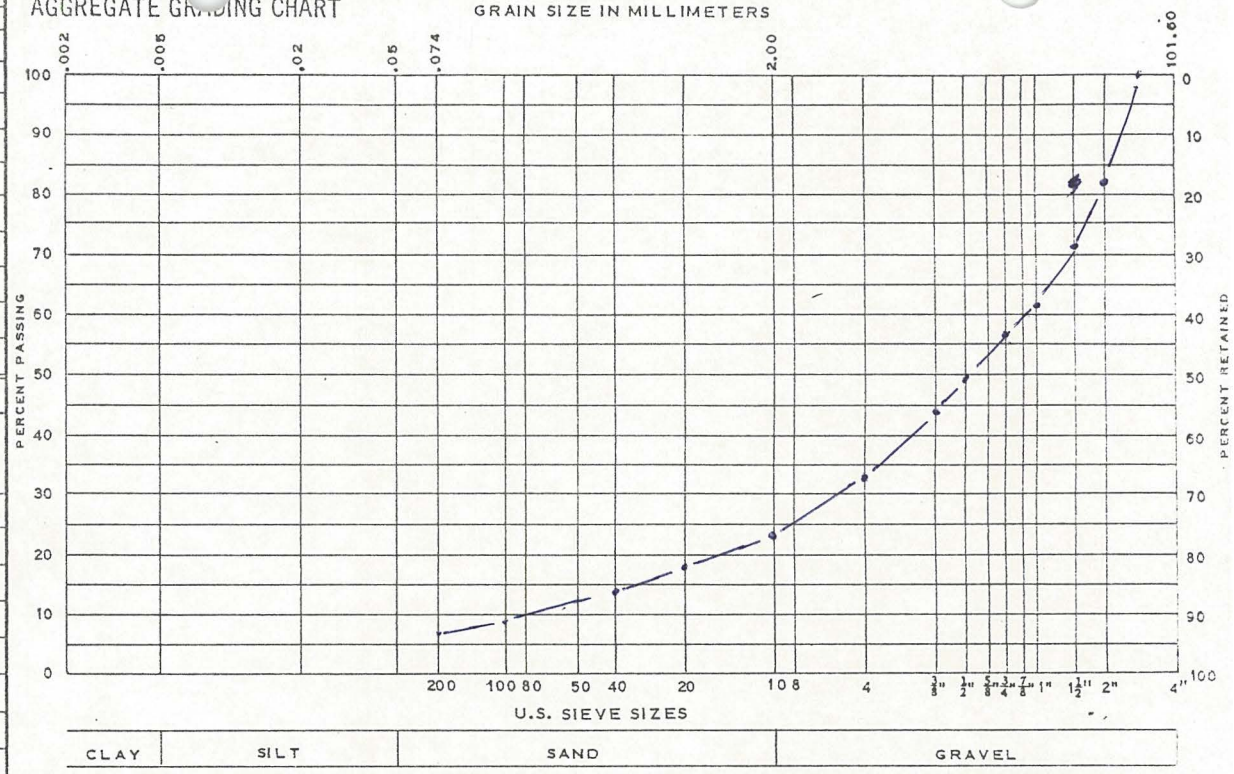
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS — SAMPLE NUMBER — SIEVE		% FINER	SIEVE
100.0	3		23.5	#10
81.6	2		17.2	#20
71.1	1 1/2		13.9	#40
62.9	1		9.9	#100
57.5	3/4		8.3	#200
49.8	1/2			
44.0	3/8			
33.0	#4			
% + 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a GW-GM			0.0							
		WELL GRADED SILTY GRAVEL.										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 1715 +00

HOLE No. ..... DEPTH 2'-6'

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 239

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER												
	SIEVE		FINER	SIEVE									
100.0	3		23.4	#10									
66.2	2		18.7	#20									
	1 1/2		15.8	#40									
51.3	1		11.7	#100									
46.1	3/4		10.2	#200									
40.9	1/2												
36.0	3/8												
30.2	#4												
% + 4"													

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		GW-GM										
		WELL GRADED SILTY GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .05 .074 2.00 101.60

PERCENT PASSING

100 90 80 70 60 50 40 30 20 10 0

PERCENT RETAINED

0 10 20 30 40 50 60 70 80 90 100

200 100 80 50 40 20 10 8 4 3/8" 1/2" 5/8" 3/4" 7/8" 1" 1 1/2" 2" 4"

U.S. SIEVE SIZES

CLAY	SILT	SAND	GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY RECONSTRUCTION

LOCATION STA: 1680 +00

HOLE No. ..... DEPTH 3'-7'

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 241

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

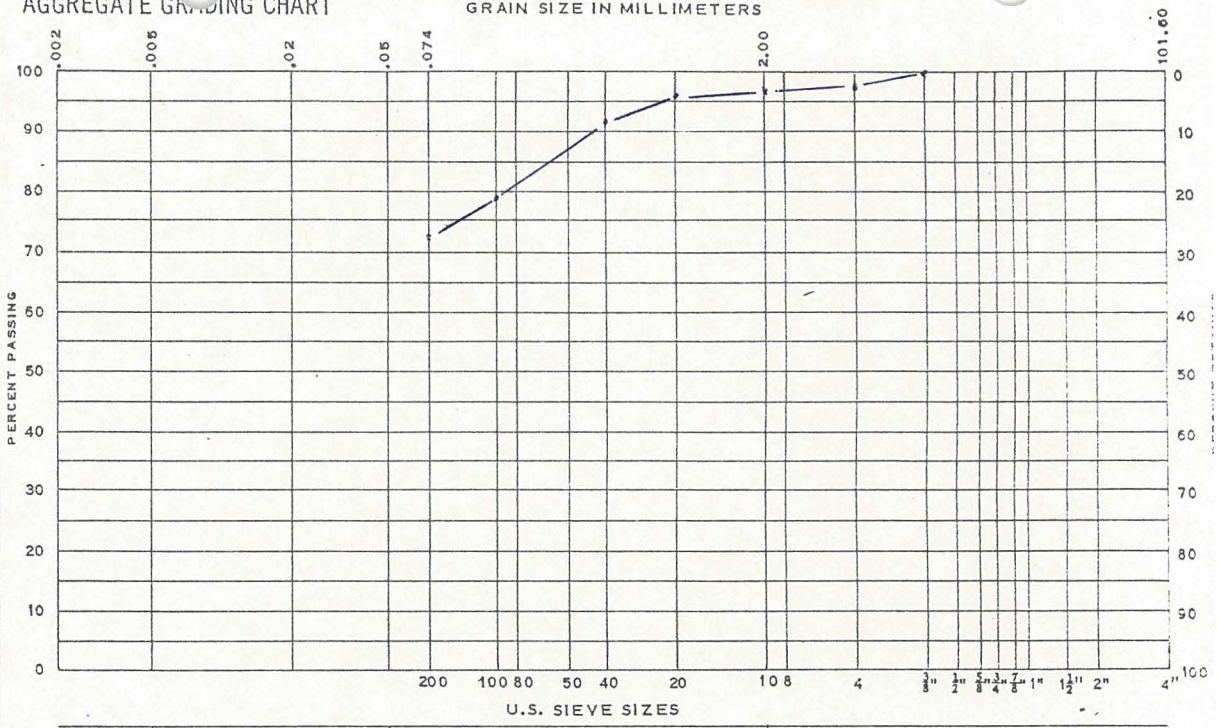
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE								
100.0	3/8								
97.6	#4								
96.7	#10								
95.8	#20								
92.0	#40								
78.7	#100								
72.3	#200								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4			0.0							
		ML										
		INORGANIC SILT AND FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA. ? SOMEWHERE BETWEEN (1680+00 & 1615+00)

HOLE No. DEPTH 4-10

SAMPLE TYPE DATE SAMPLED JUNE 16

FIELD SAMPLE No. LAB SAMPLE No. 242

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/9/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

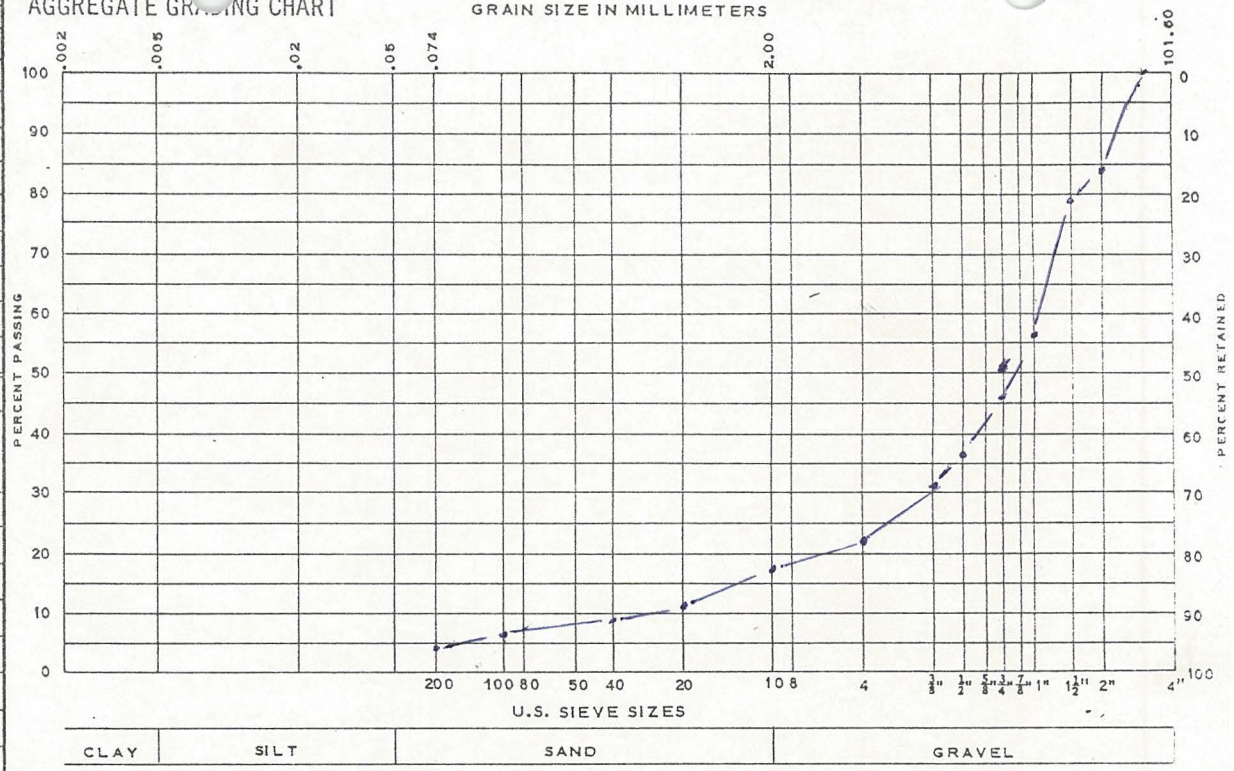
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% OF FINER	SIEVE					
100.0	3		17.4	#10					
84.6	2		12.8	#20					
79.5	1 1/2		9.5	#40					
55.9	1		5.8	#100					
45.2	3/4		4.7	#200					
36.9	1/2								
30.3	3/8								
23.1	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		GW										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 1615+00

HOLE No. ..... DEPTH 2'-8'

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. ~~234~~ 243

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

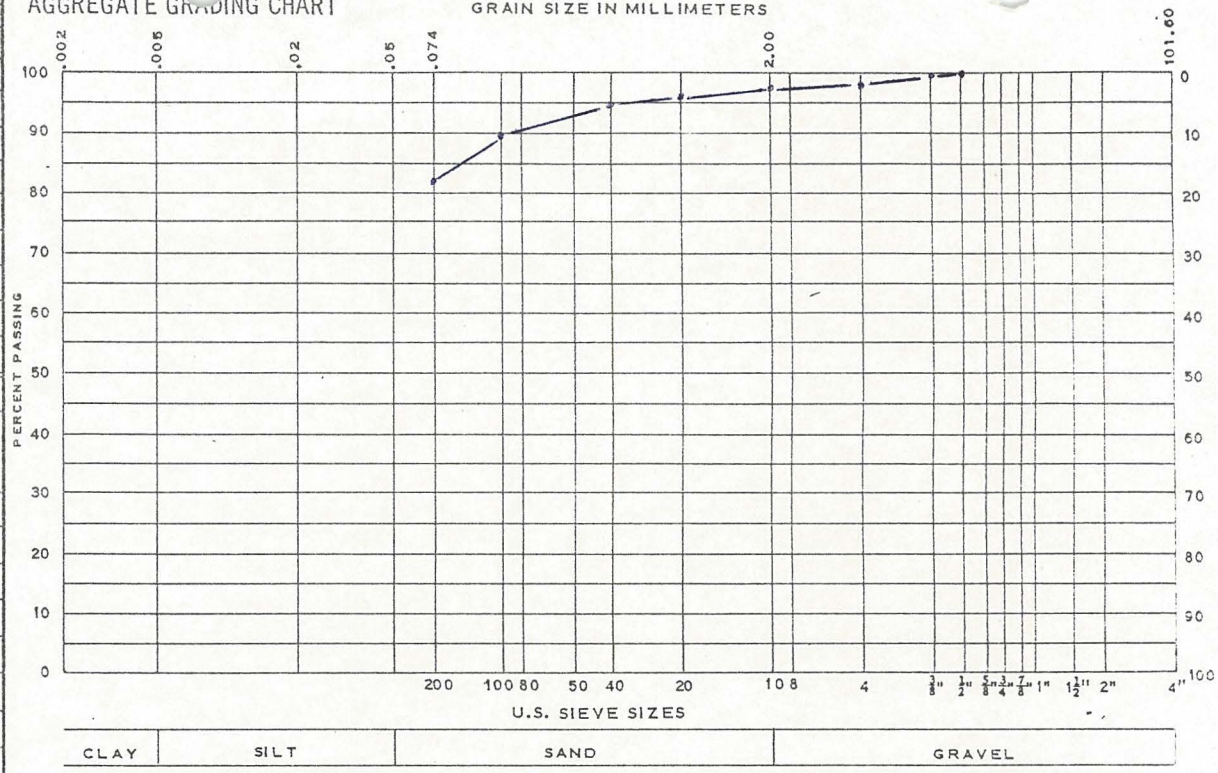
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
SIEVE									
100.0	1/2"								
99.2	3/8"								
97.7	#4								
92.0	#10								
96.1	#20								
94.7	#40								
89.3	#100								
81.8	#200								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4			0.0							
		ML										
		INORGANIC SILT AND FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 1550+00 ℄

HOLE No. ____ DEPTH 1-5'

SAMPLE TYPE ____ DATE SAMPLED JUNE/65

FIELD SAMPLE No. ____ LAB SAMPLE No. 247

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/4/65
DATE

EA

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

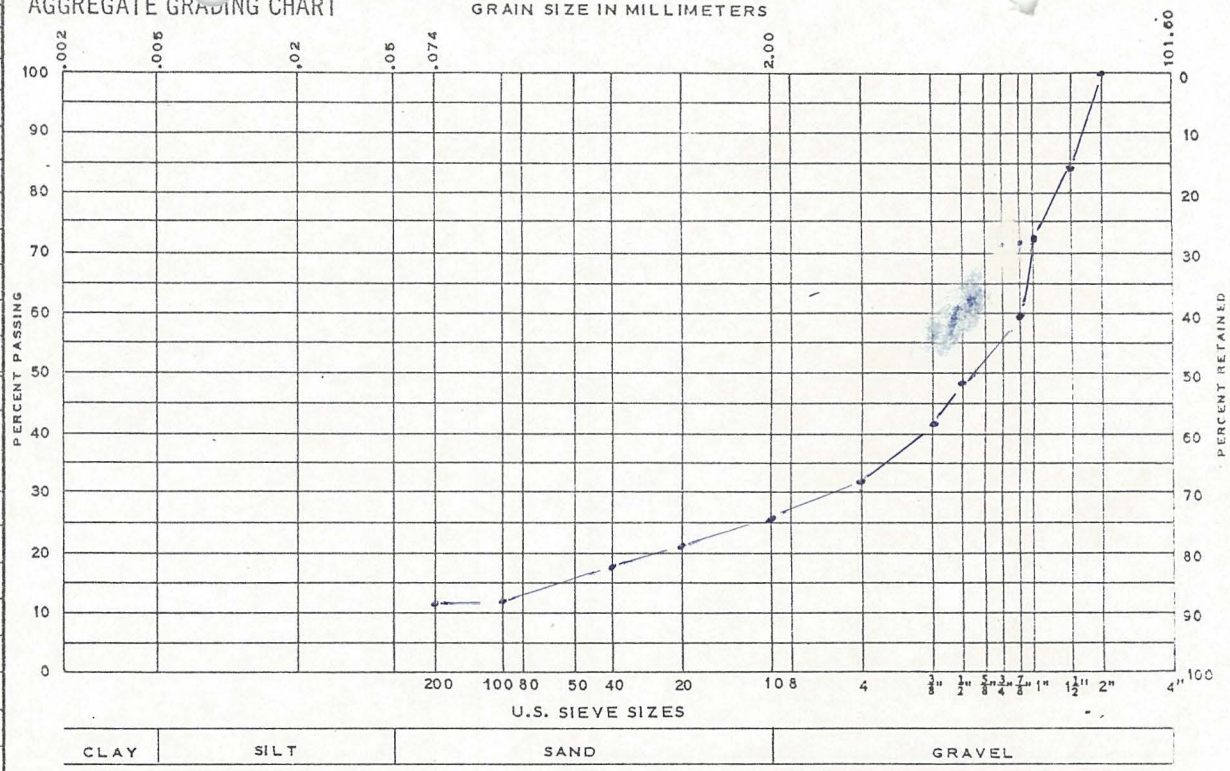
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	2		25.1	#10					
84.9	1½		20.5	#20					
71.2	1		17.4	#40					
59.4	¾		12.6	#100					
48.0	½		10.6	#200					
41.1	⅜								
31.5	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		GW-GM										
		WELL GRADED SILTY GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STN: 1545+00 AND 1535+00

HOLE No. ..... DEPTH 2'-9' : 0-8'

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 245 to 246

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

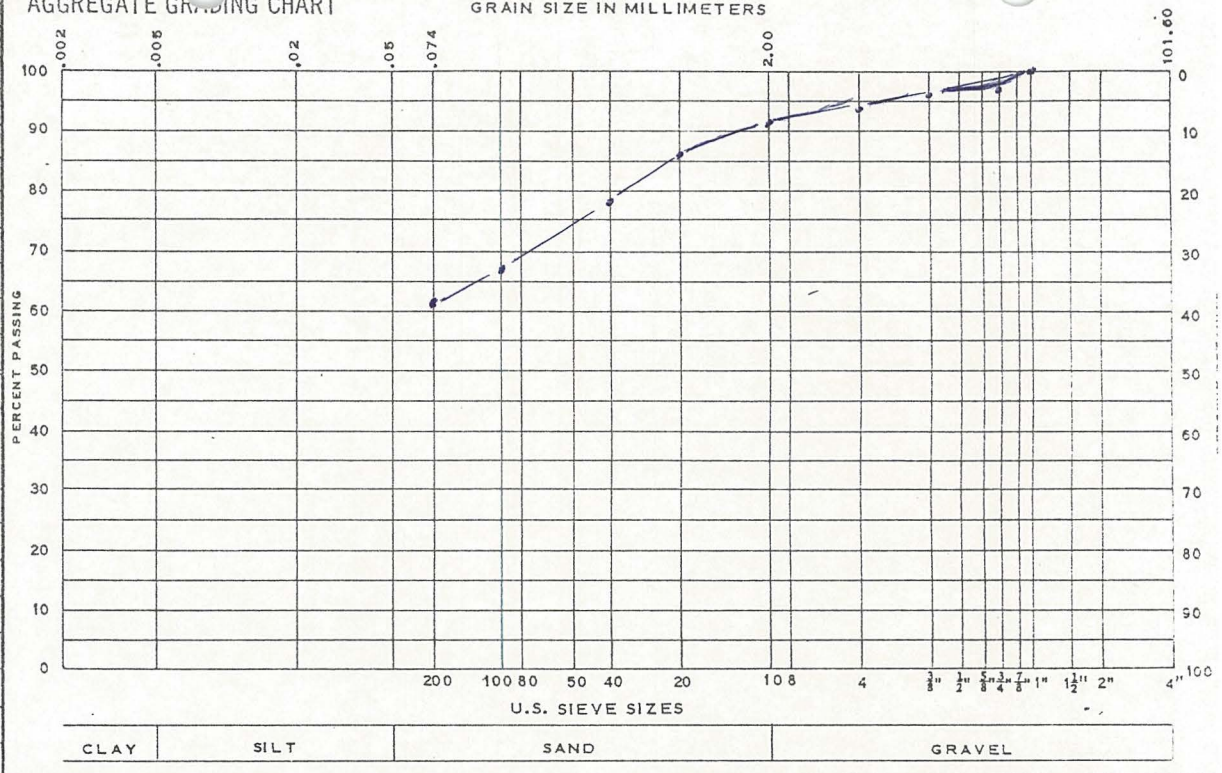
SIEVE ANALYSIS

% FINER BY WEIGHT	SAMPLE NUMBER				
	SIEVE		% FINER	SIEVE	
100.0	1		90.5	#10	
97.4	3/4		86.2	#20	
—	1/2		78.9	#40	
96.3	3/8		66.9	#100	
94.0	#4		62.0	#200	
% + 4"					

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		#4	25.7	23.6	2.1							
		A-4										
		ML										
		LO PLASTIC INORGANIC SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 1520+00

HOLE No. ..... DEPTH 1'-2'

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. ~~234~~ 247

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

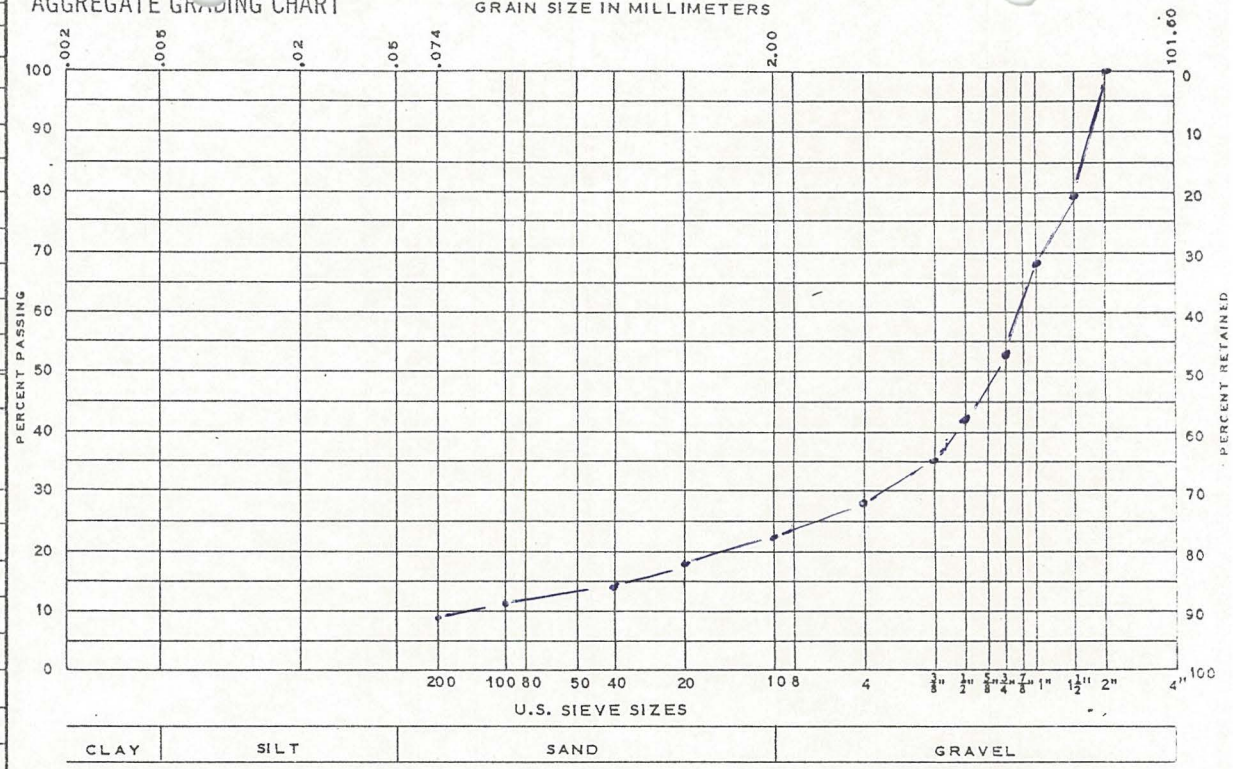
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER									
	SIEVE		% FINER	SIEVE						
100.0	2		22.5	#10						
79.8	1 1/2		18.0	#20						
67.8	1		14.9	#40						
53.9	3/4		10.8	#100						
41.7	1/2		9.0	#200						
25.0	3/8									
27.4	#4									
% + 4"										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		GW-GM.										
		WELL GRADED SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA: 1520 +00

HOLE No. ..... DEPTH: 2'-10'

SAMPLE TYPE ..... DATE SAMPLED: JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No.: 248

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

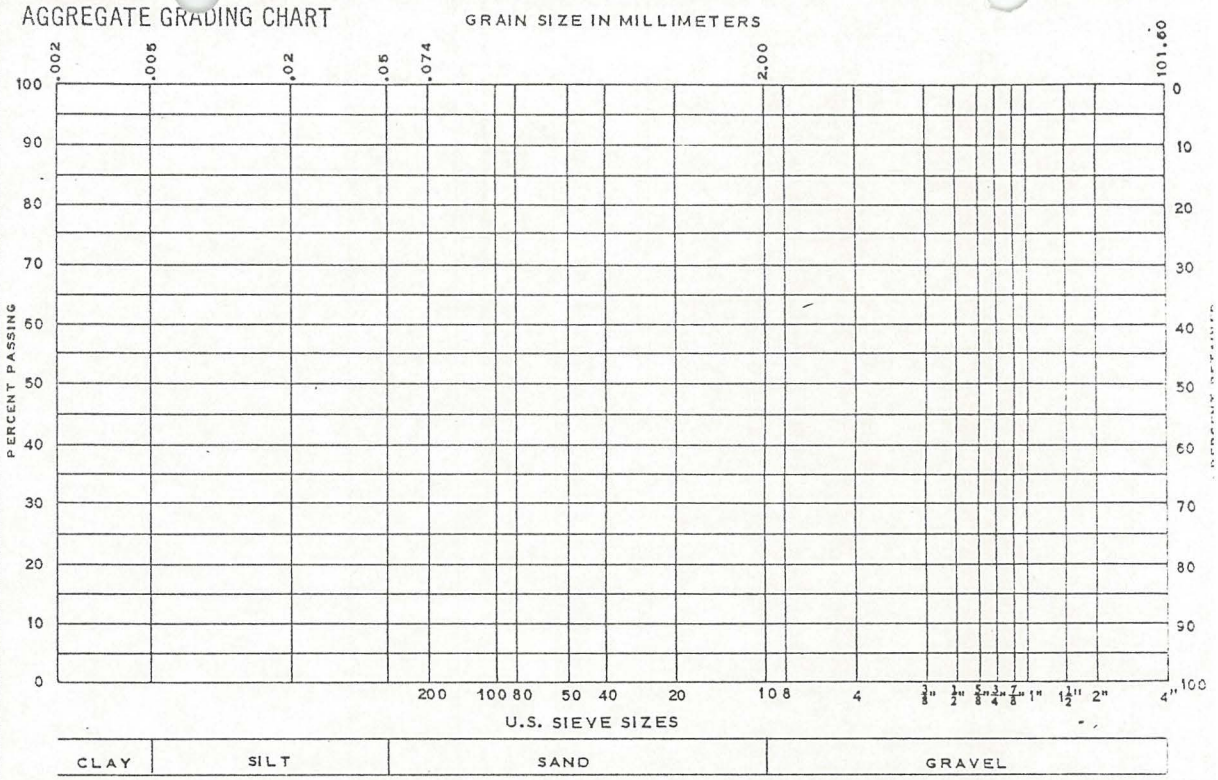
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	>75% PASSING #200								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4 CL. MEDIUM PLASTIC INORGANIC CLAY	28.4	18.0	10.4							

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STN: 15 15 400

HOLE No. ..... DEPTH: 1' - 7'

SAMPLE TYPE ..... DATE SAMPLED: JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No.: 249

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

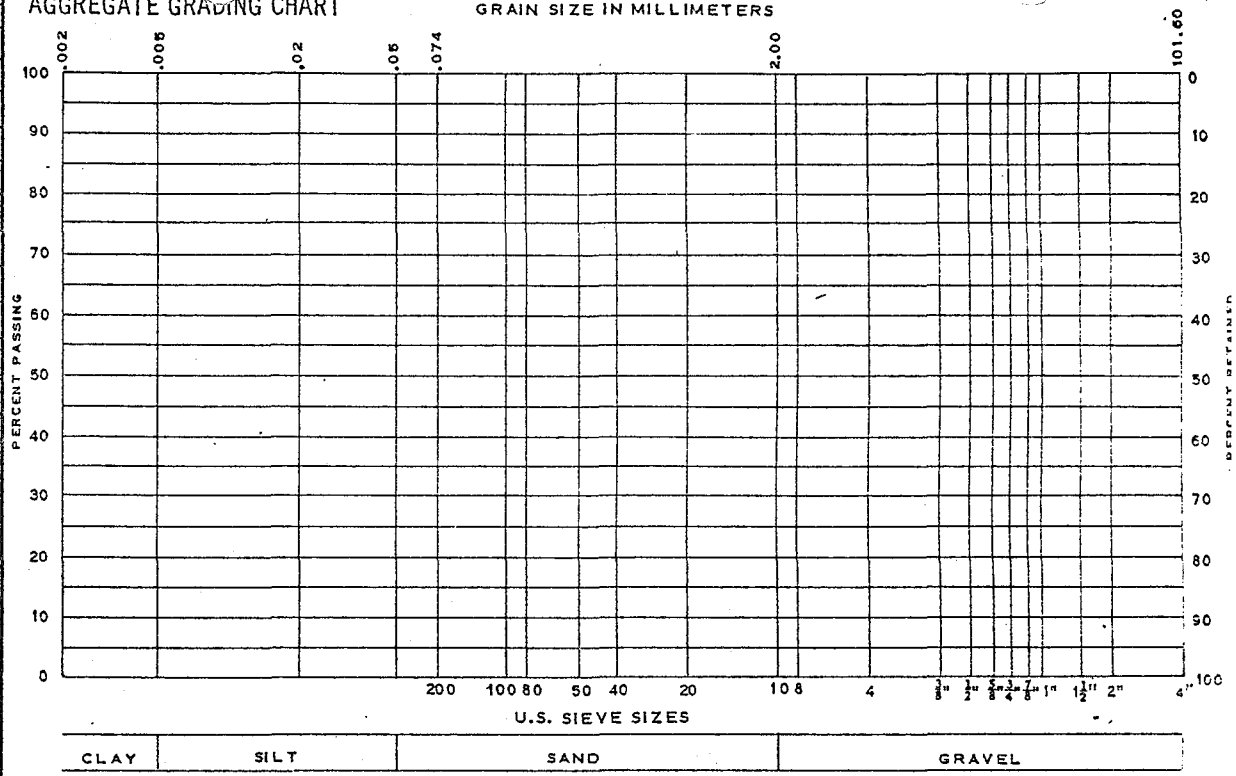
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS — SAMPLE NUMBER								
	75% PASSING #200								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4			00							
		ML										
		INORGANIC SILT WITH VERY FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY CONSTRUCTION

LOCATION STA. 1500+00

HOLE No. ..... DEPTH 1'-2½'

SAMPLE TYPE ..... DATE SAMPLED JUNE '69

FIELD SAMPLE No. ..... LAB SAMPLE No. 250

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
		> 75% PASSING #200							
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4 ML LO PLASTIC INORGANIC SILTS	26.4	22.7	3.4							

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .05 .074 2.00 101.60

PERCENT PASSING (100 90 80 70 60 50 40 30 20 10 0)

PERCENT RETAINED (0 10 20 30 40 50 60 70 80 90 100)

200 100 80 50 40 20 10 8 4 3/8" 1/2" 5/8" 3/4" 7/8" 1" 1 1/2" 2" 4"

U.S. SIEVE SIZES

CLAY | SILT | SAND | GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STN: 1485 +00

HOLE No. ..... DEPTH 1'-6'

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 251

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

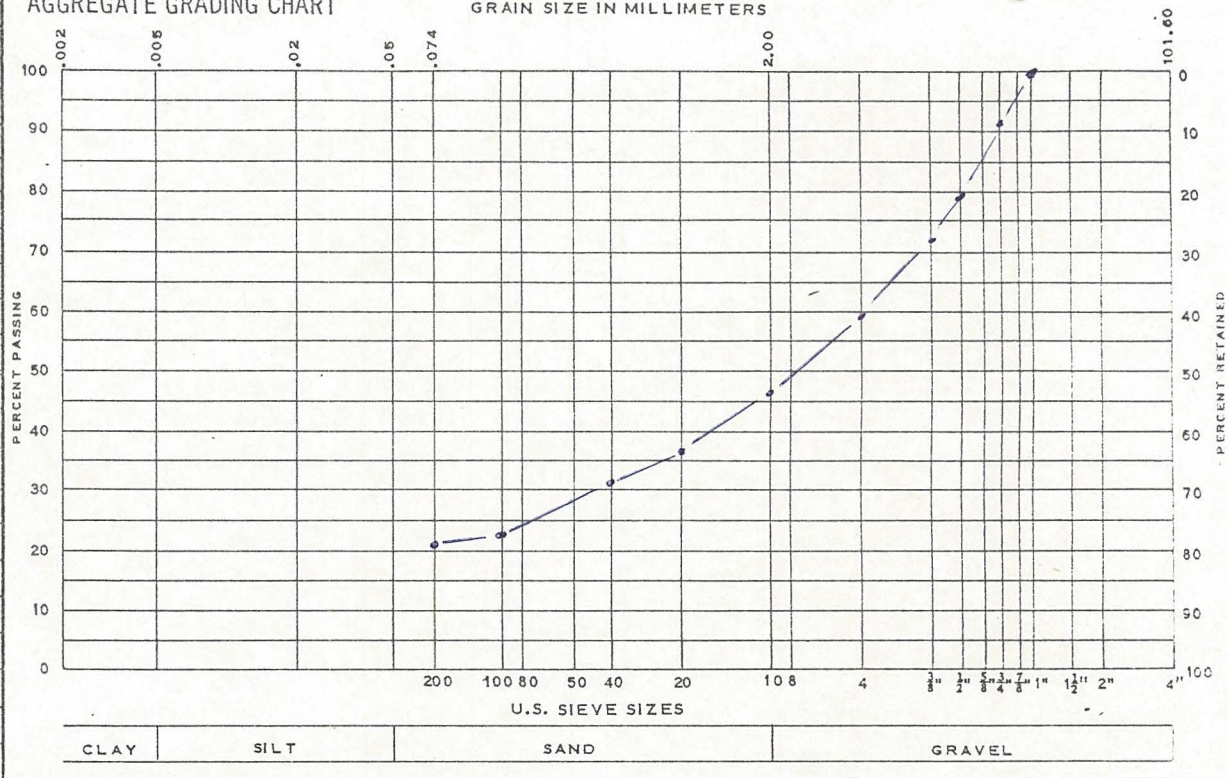
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	1		46.8	#10					
90.3	3/4		36.6	#20					
79.8	1/2		30.4	#40					
73.0	3/8		23.9	#100					
59.2	#4		21.5	#200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		SM										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA: 1450+00

HOLE No. ..... DEPTH 2'-10'

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 252

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

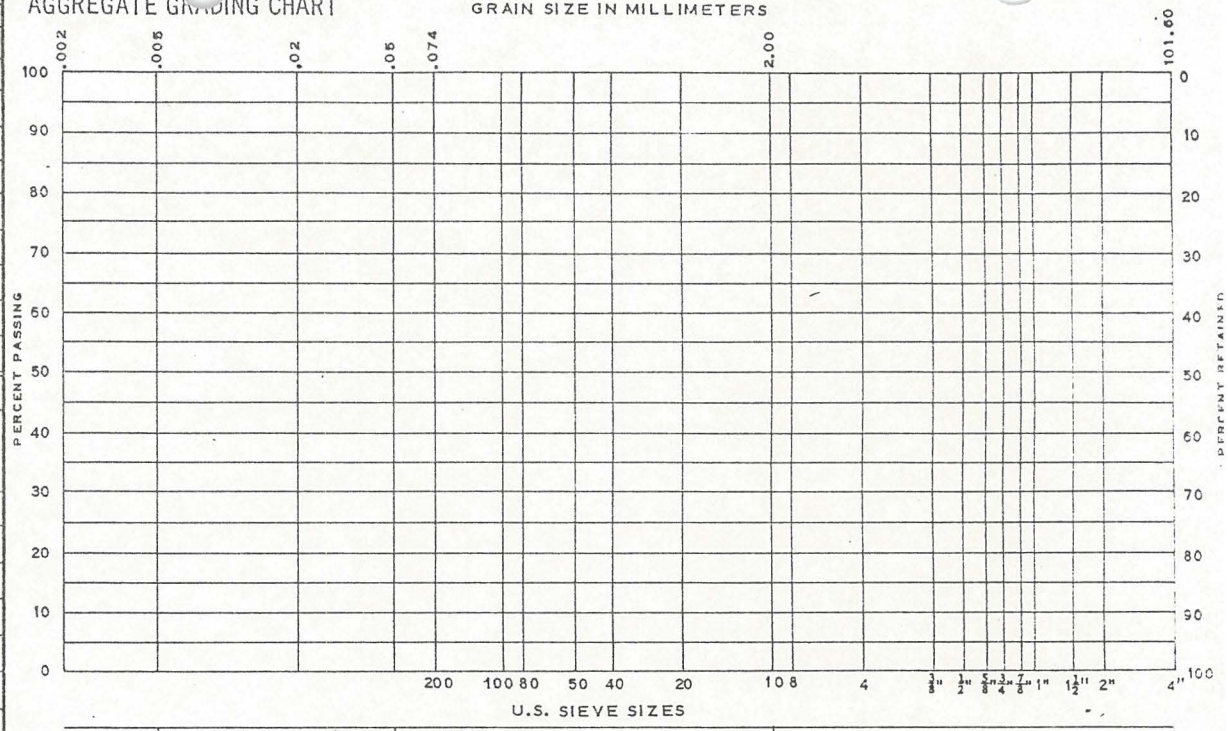
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	>75% PASSING #200								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-5 ML INORGANIC LO PLASTIC SILT	40.8	31.1	9.7							

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STN: 1440+00

HOLE No. ..... DEPTH: 1½' - 5'

SAMPLE TYPE ..... DATE SAMPLED: JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No.: 253

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

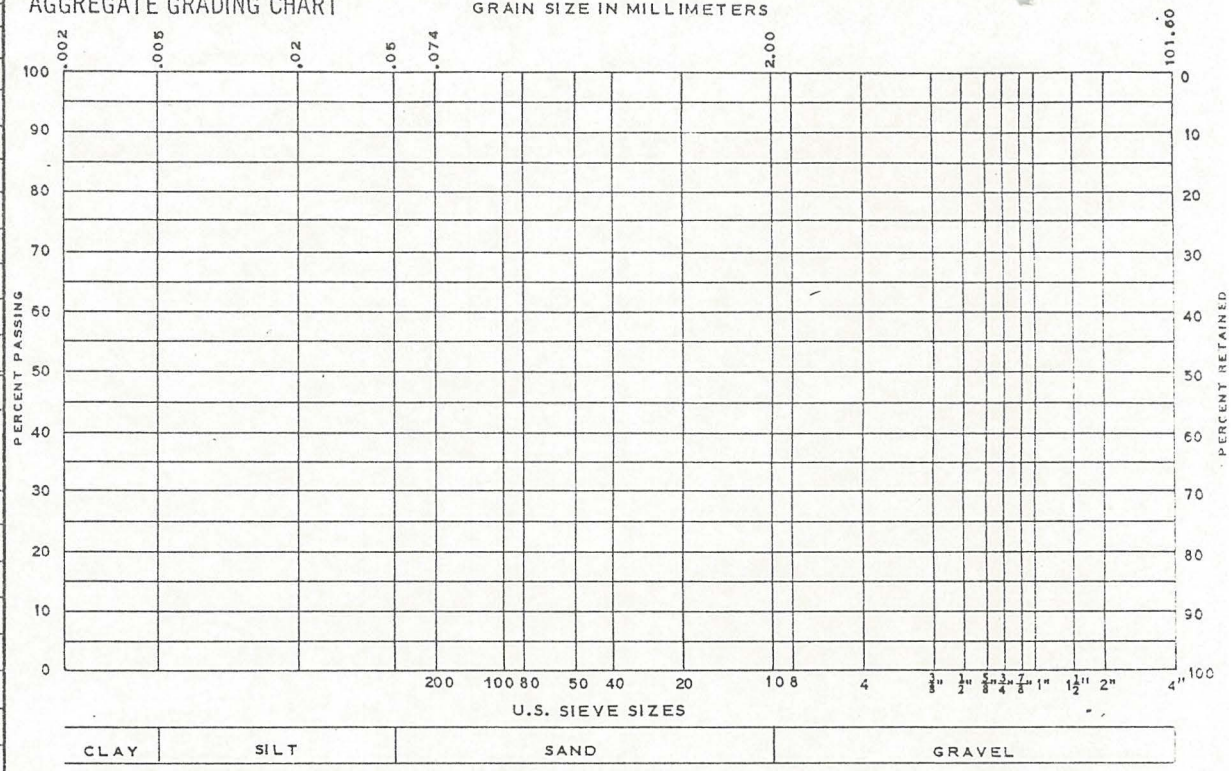
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
	> 75% PASSING # 200							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-7-5 42.7 25.7 17.0 CL MEDIUM PLASTIC INORGANIC CLAY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STN. 1420 +00

HOLE No. ..... DEPTH 2'-8'

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 254

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

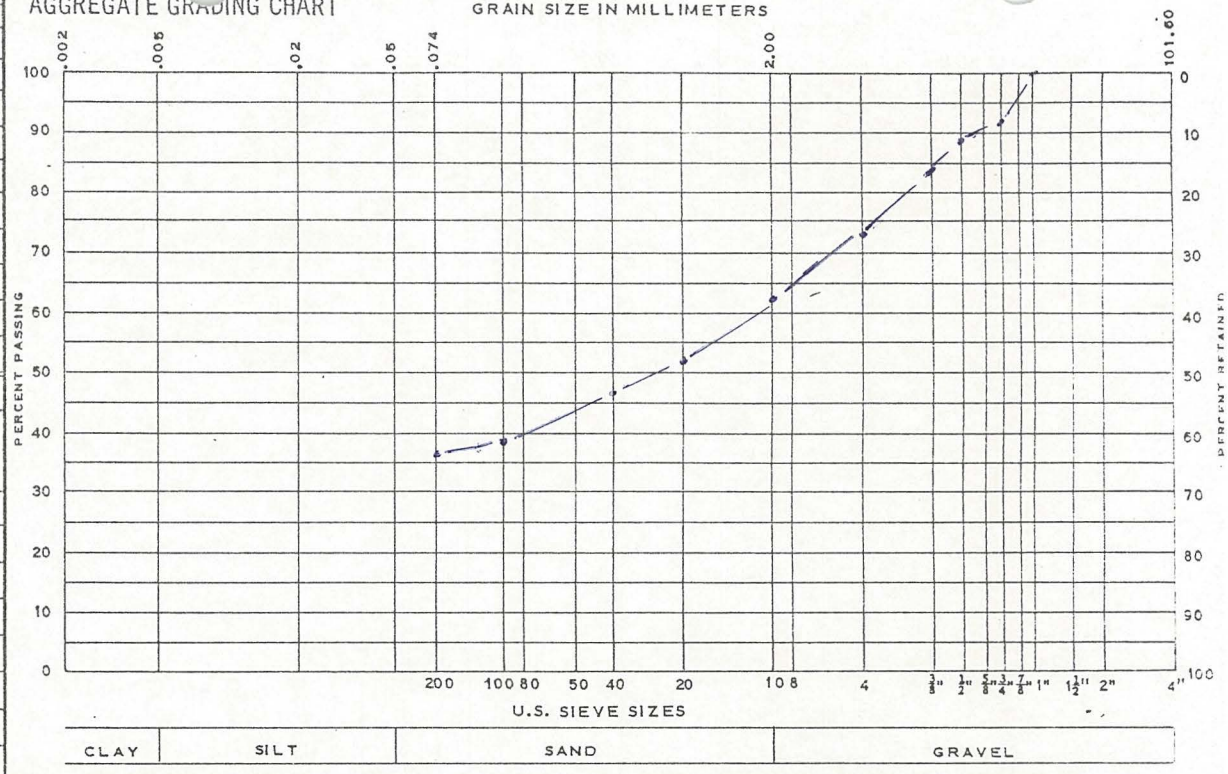
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	1		61.3	#10					
93.5	3/4		51.4	#20					
89.2	1/2		45.7	#40					
84.3	3/8		38.7	#100					
78.7	#4		36.0	#200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4			N.P.							
		SM										
		SILT SAND MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 1410 +00

HOLE No. ..... DEPTH 3'-7'

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 255

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

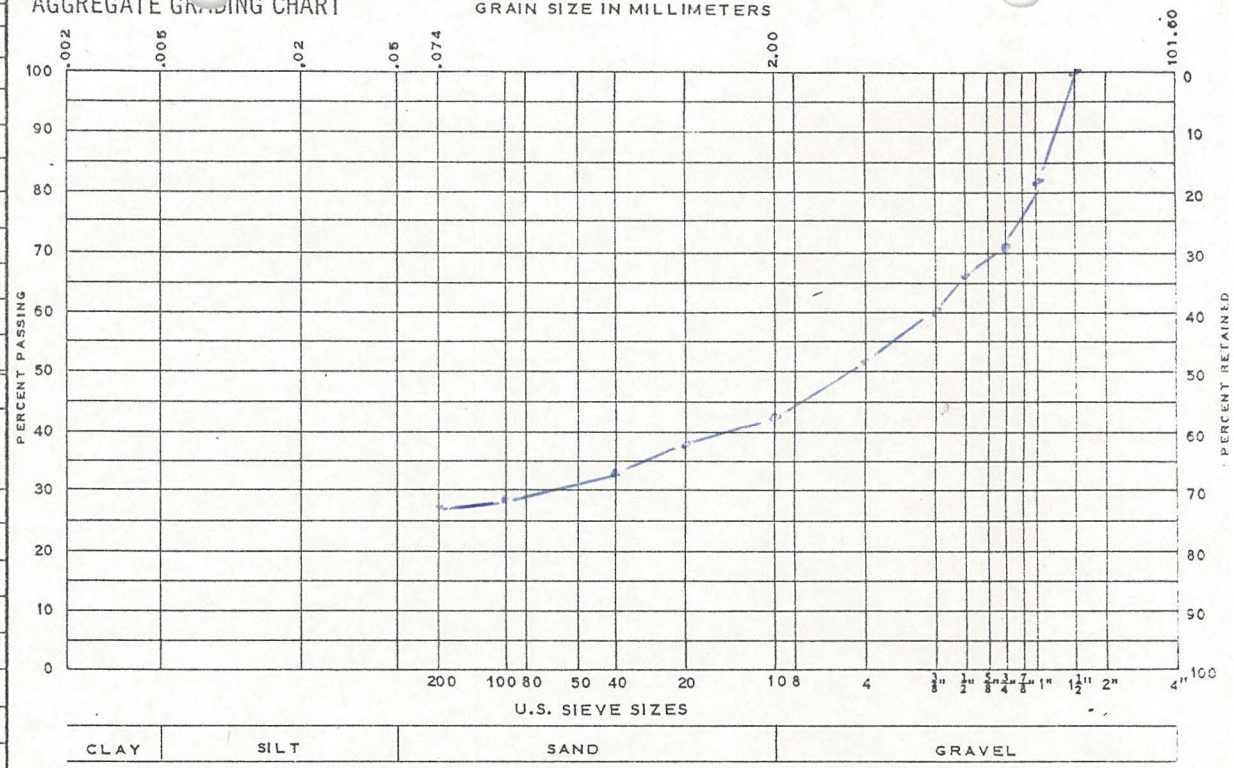
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER									
	SIEVE		% FINER	SIEVE						
100.0	1 1/2		43.6	#10						
81.6	1		37.5	#30						
70.9	3/4		34.0	#40						
66.6	1/2		29.4	#100						
60.0	3/8		27.4	#200						
51.2	#4									
% + 4"										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		~~A-1-b~~	25.3	22.7	2.6							
		A-2-4										
		S M										
		SILT - SAND MIXTURES										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 1395+00

HOLE No. ..... DEPTH 2'-10'

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 256

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

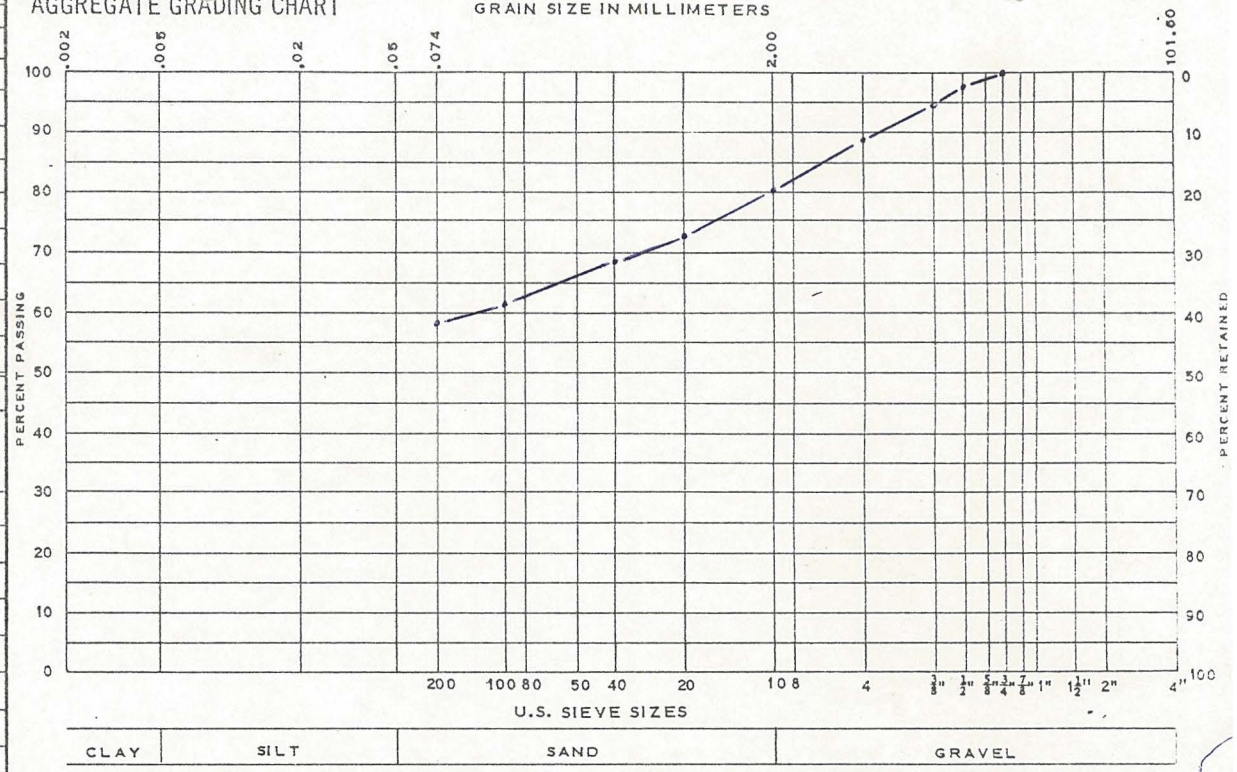
SIEVE ANALYSIS

% FINER BY WEIGHT	SAMPLE NUMBER
SIEVE	
100.0	3/4"
97.3	1/2
94.9	3/8
88.2	#4
80.2	#10
72.9	#20
68.3	#40
61.9	#100
58.3	#200
% + 4"	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	22	18.7	3.3							
		ML										
		INORGANIC SILT AND FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 1405+00

HOLE No. ..... DEPTH: 4-8'

SAMPLE TYPE ..... DATE SAMPLED: JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 257

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/9/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

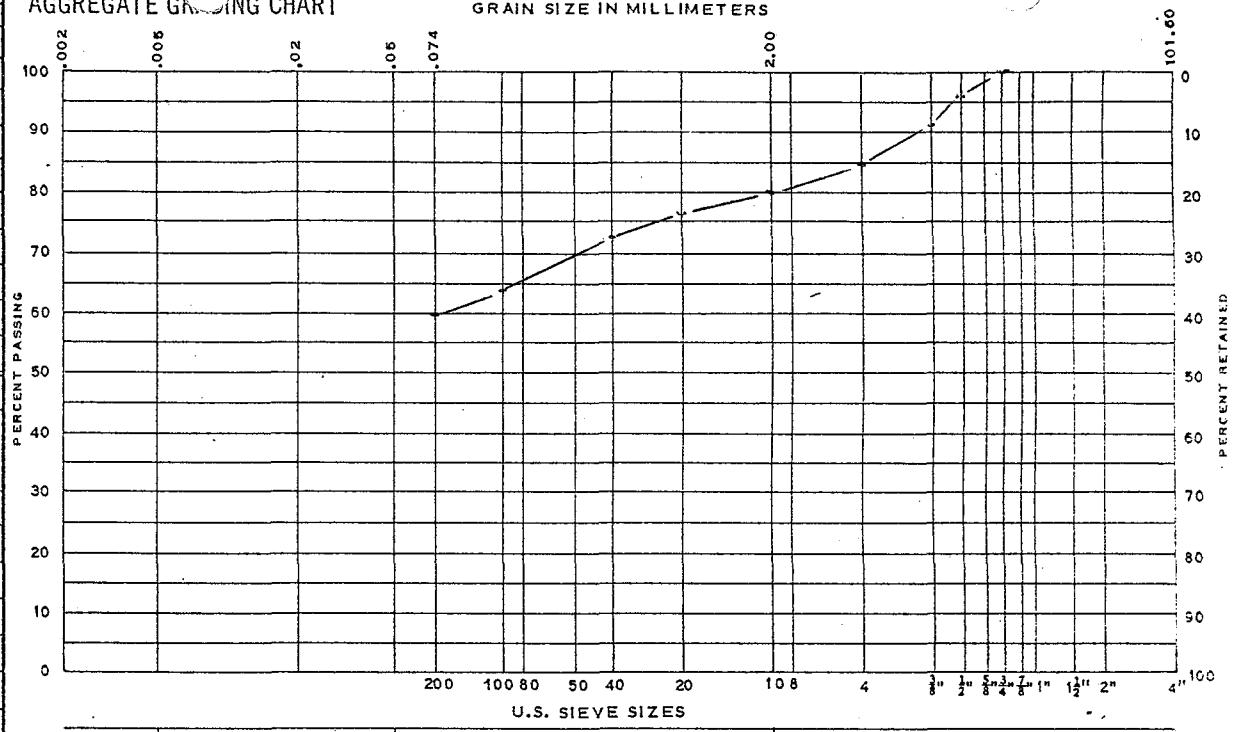
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
	Sieve		% Finer	Sieve				
100.0	3/4		79.4	#10				
96.3	1/2		75.6	#20				
91.5	3/8		72.5	#40				
84.6	#4		64.2	#100				
			59.8	#200				
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4			00							
		ML										
		INORGANIC SILT AND SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 1370+00

HOLE No. ..... DEPTH: 2-5'

SAMPLE TYPE ..... DATE SAMPLED: JUNE/68

FIELD SAMPLE No. ..... LAB SAMPLE No.: 258

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

3/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

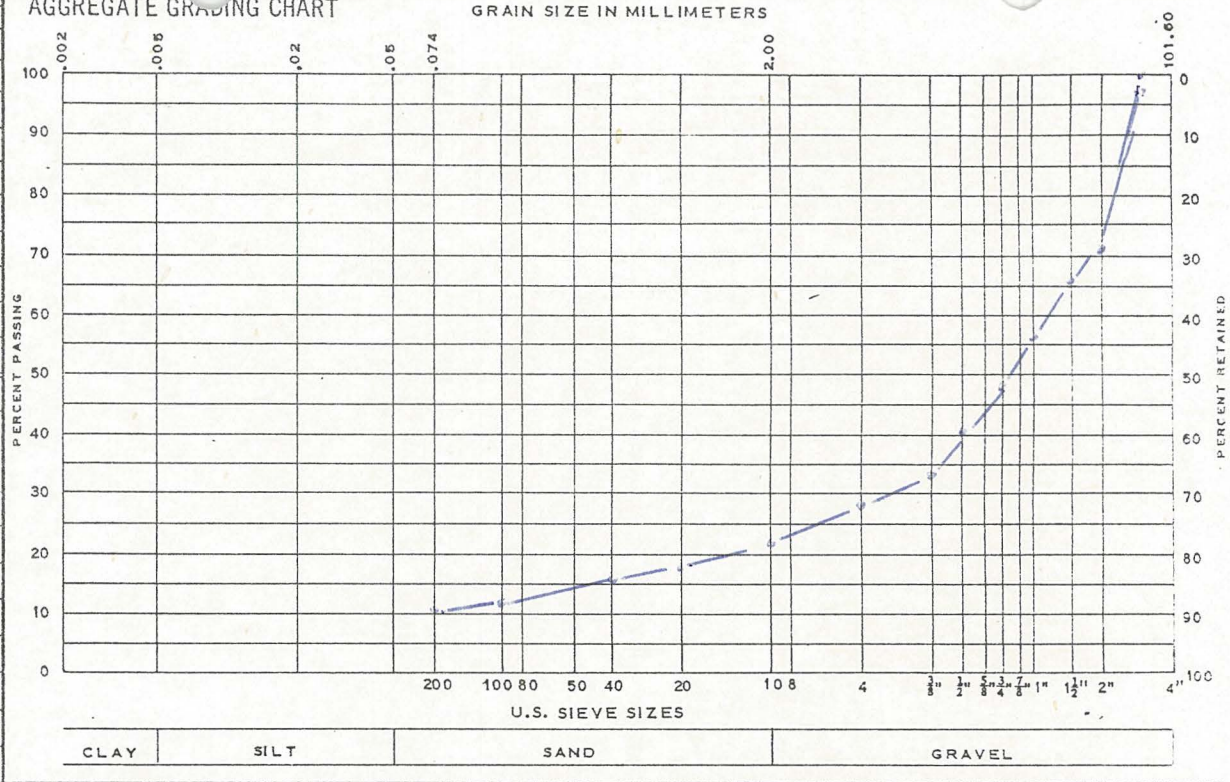
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
130.0	3		22.3	#10					
70.7	2		18.5	#20					
66.2	1 1/2		16.1	#40					
56.5	1		12.7	#100					
48.4	3/4		10.7	#200					
40.6	1/2								
34.7	3/8								
27.4	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		GW-GM										
		WELL GRADED SILTY GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 1355+00

HOLE No. ..... DEPTH 3'-8'

SAMPLE TYPE ..... DATE SAMPLED .....

FIELD SAMPLE No. ..... LAB SAMPLE No. 258

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE .....

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE .....

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

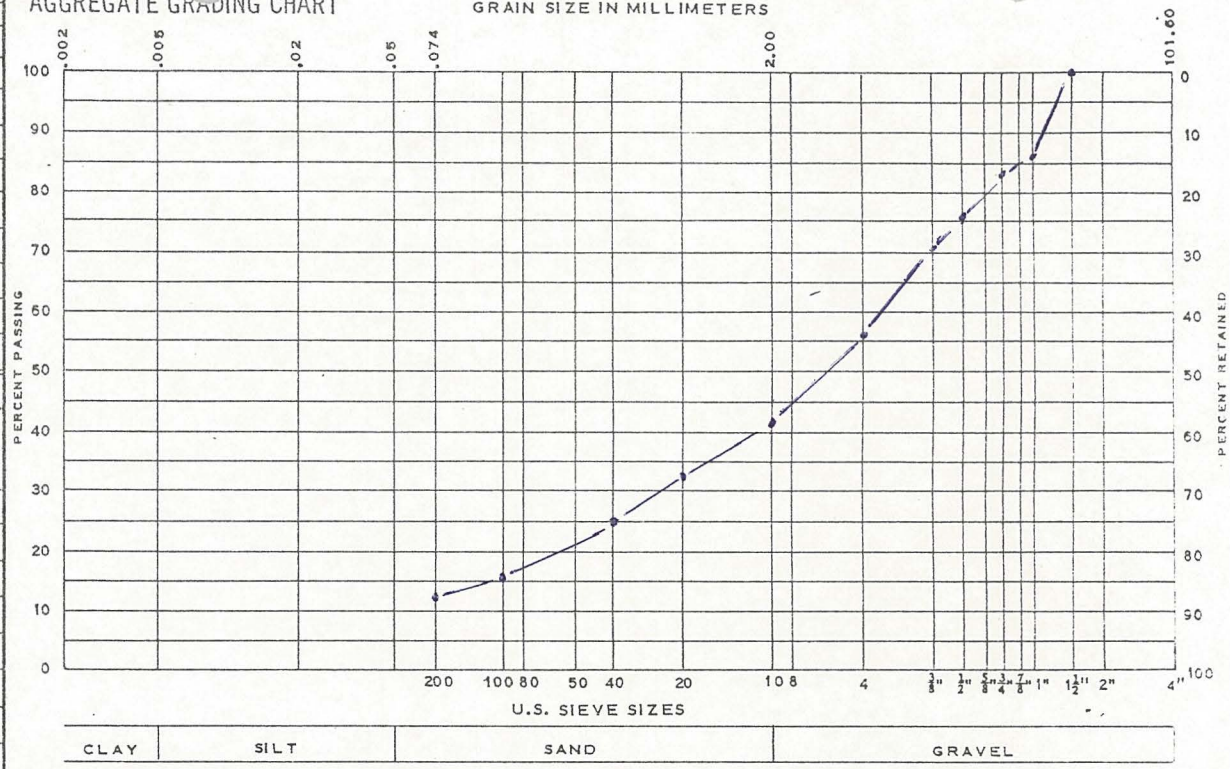
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER									
	SIEVE		% FINER	SIEVE						
100.0	1 1/2		43.3	#10						
86.3	1		32.9	#20						
84.9	3/4		25.0	#40						
75.1	1/2		15.3	#100						
70.5	3/8		12.9	#200						
55.9	#4									
% + 4"										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		SM.										
		SILTY SAND.										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION.

LOCATION STA 1270 +00

HOLE No. ..... DEPTH 6'-10'

SAMPLE TYPE ..... DATE SAMPLED JUNE/65

FIELD SAMPLE No. ..... LAB SAMPLE No. 260

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

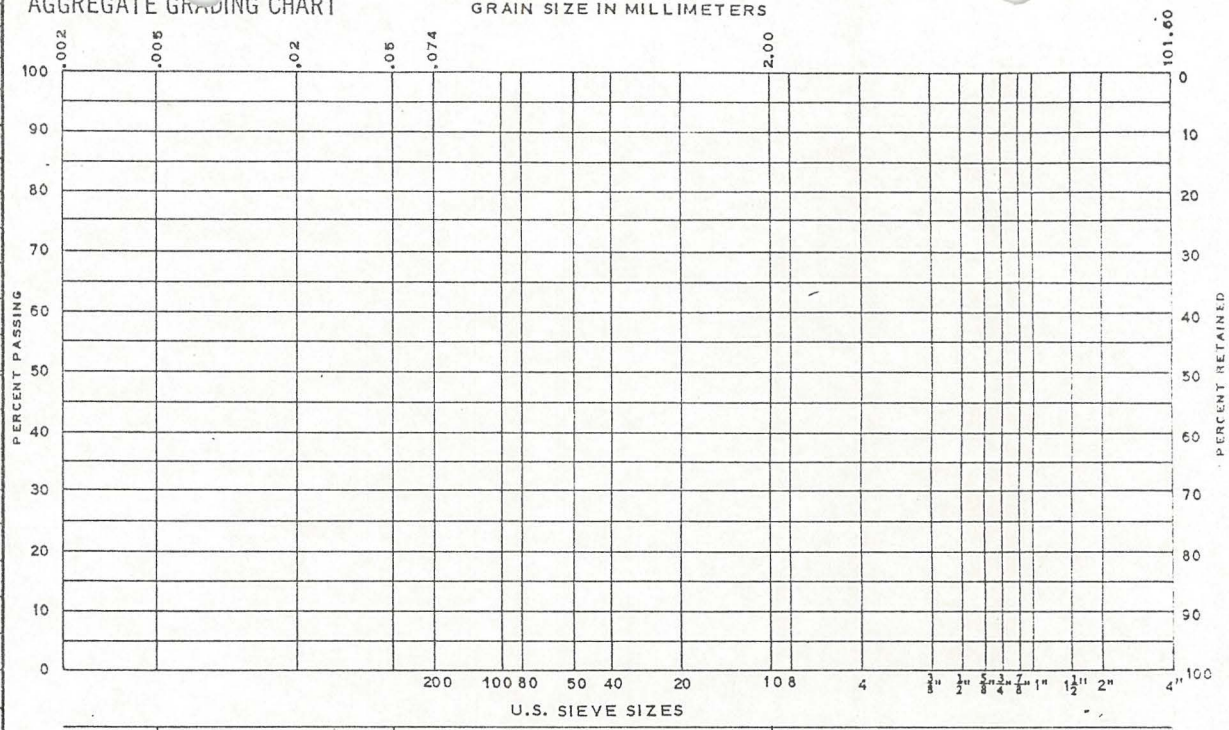
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		Pt.										
		PEAT, HIGHLY ORGANIC SOIL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 1265+00

HOLE No.: DEPTH: 6-9'

SAMPLE TYPE: DATE SAMPLED: JUNE/69

FIELD SAMPLE No.: LAB SAMPLE No.: 261

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

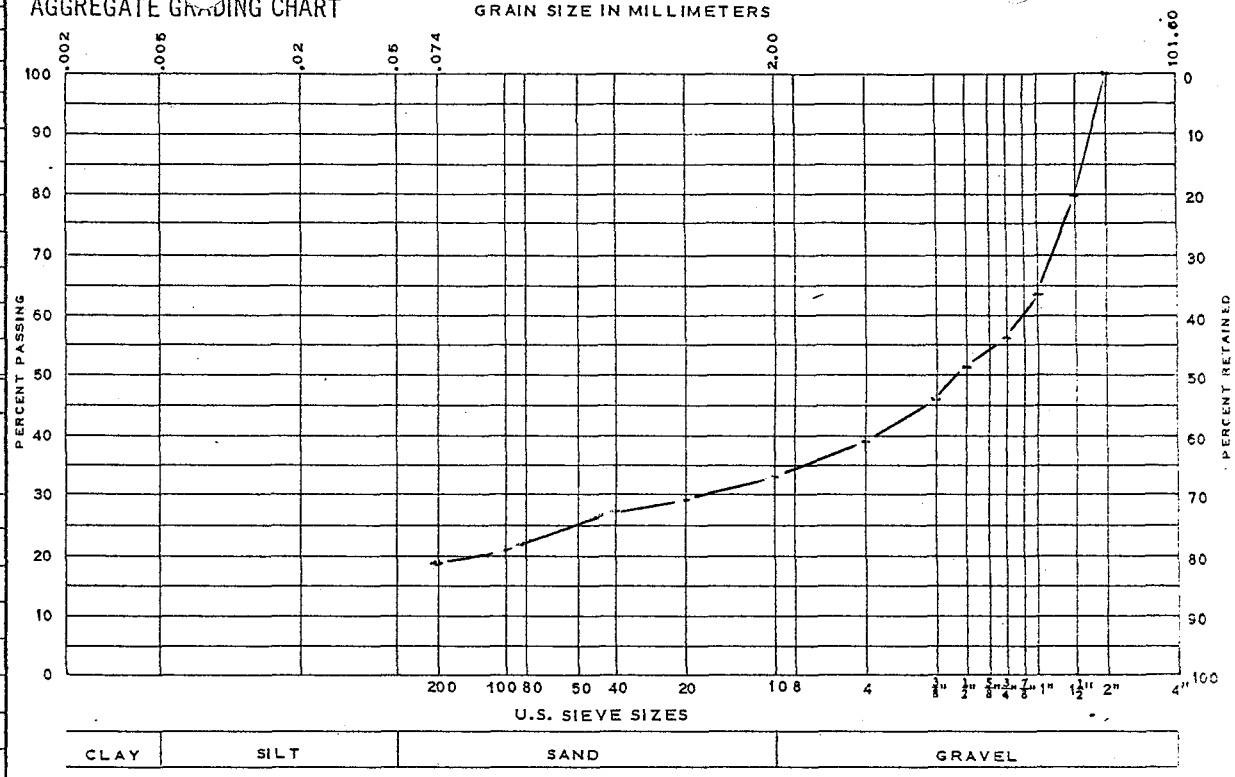
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
	SIEVE		% FINER	SIEVE				
100.0	2"		33.3	#10				
79.9	1½"		29.3	#20				
64.1	1"		27.3	#40				
56.2	¾"		21.3	#100				
51.9	½"		18.9	#200				
45.7	⅜							
38.7	#4							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b 20.7 44.3										
		GP										
		POORLY- GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMASTER HIGHWAY CONSTRUCTION

LOCATION Sta. 1255+00

HOLE No. ..... DEPTH 5-7'

SAMPLE TYPE ..... DATE SAMPLED June/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 262

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

11/4/70
DATE

EH

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

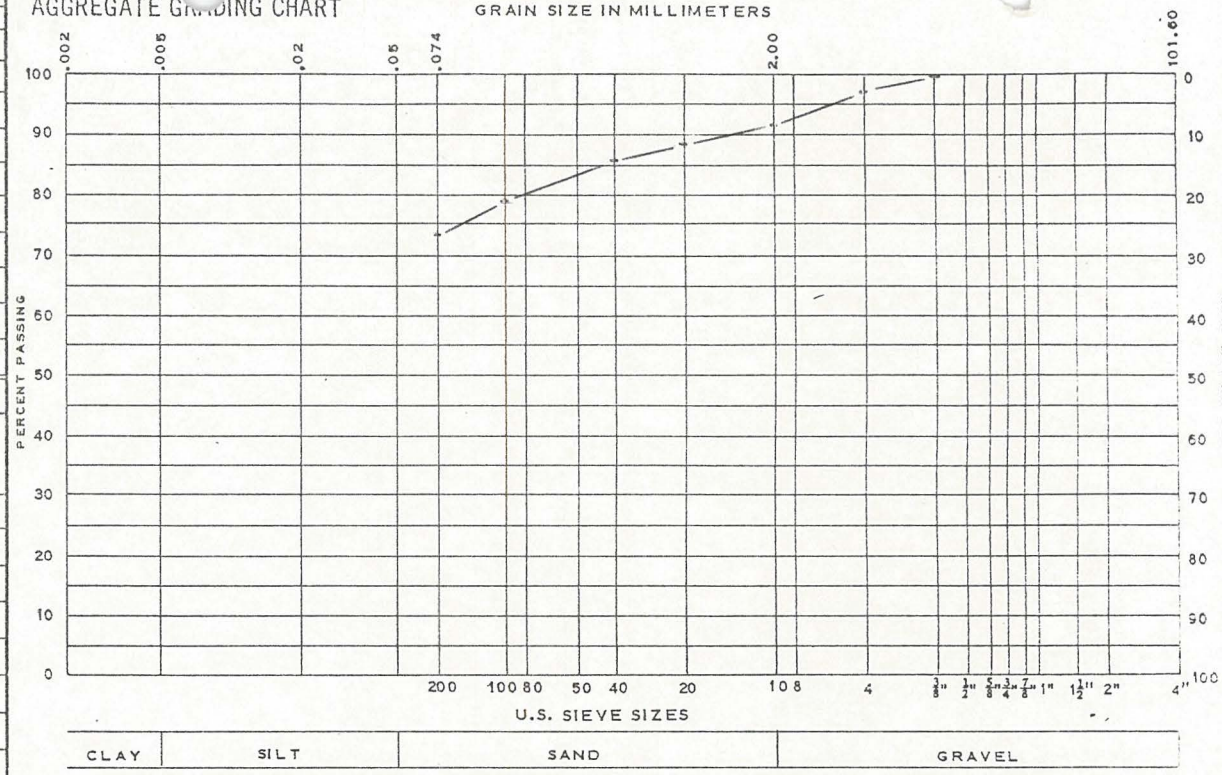
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE								
100.0	3/8"								
97.5	#4								
91.8	#10								
88.3	#20								
85.7	#40								
79.2	#100								
73.3	#200								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	28	20	8							
		ML										
		INORGANIC SILT AND FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT Dempster Highway Construction

LOCATION STA. 1250+00

HOLE No. ..... DEPTH 1½ - 3'

SAMPLE TYPE ..... DATE SAMPLED June/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 263

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

1/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

HD 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

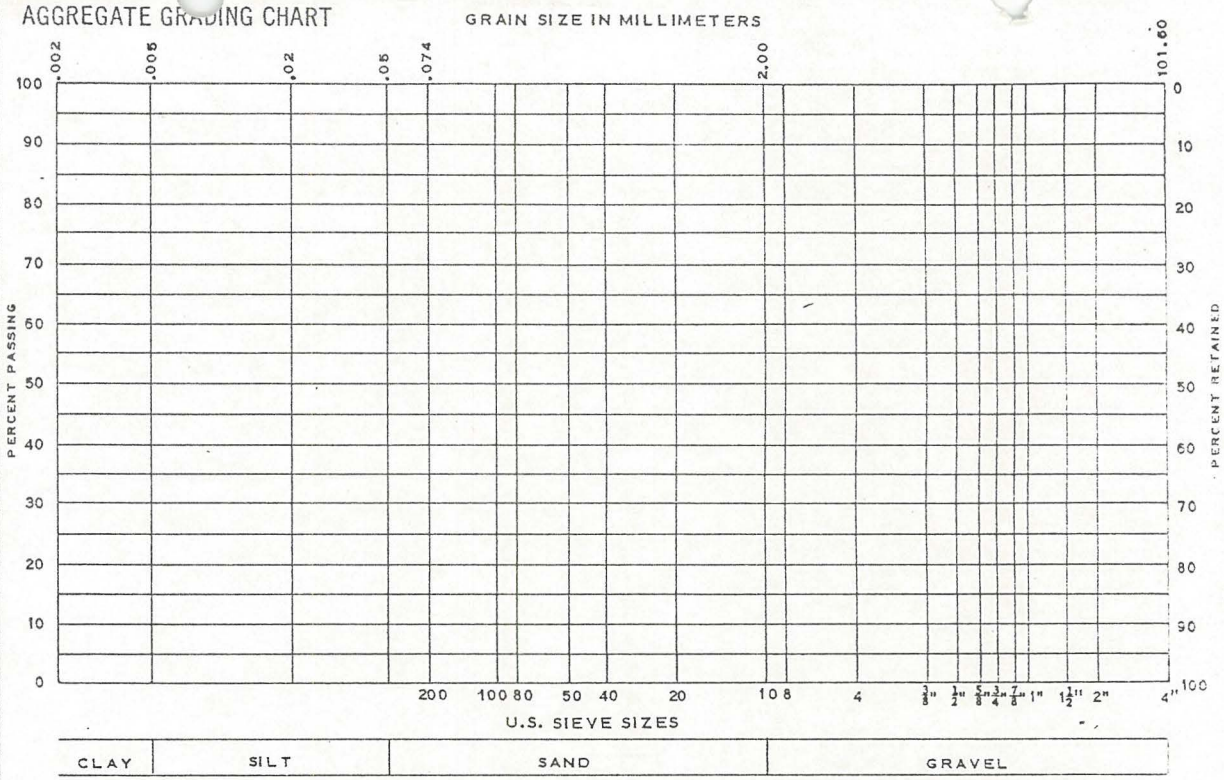
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	> 75% PASSING # 200								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			44.8	34.0	10.8							
		A-5										
		ML										
		Lo PLASTIC INORGANIC SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STN: 1240+00

HOLE No. ..... DEPTH 1'12' - 8'

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 264

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
		>75% PASSING #200.							
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-5 MH HI PLASTIC INORGANIC SILT	74.7	60	9.7							

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .05 .074 2.00 101.60

PERCENT PASSING: 100 90 80 70 60 50 40 30 20 10 0

PERCENT RETAINED: 0 10 20 30 40 50 60 70 80 90 100

200 100 80 50 40 20 10 8 4 3/8" 1/2" 5/8" 3/4" 7/8" 1" 1 1/2" 2" 4"

U.S. SIEVE SIZES

CLAY | SILT | SAND | GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STN: 1220 +00

HOLE No. ..... DEPTH 7' - 10'

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 265

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

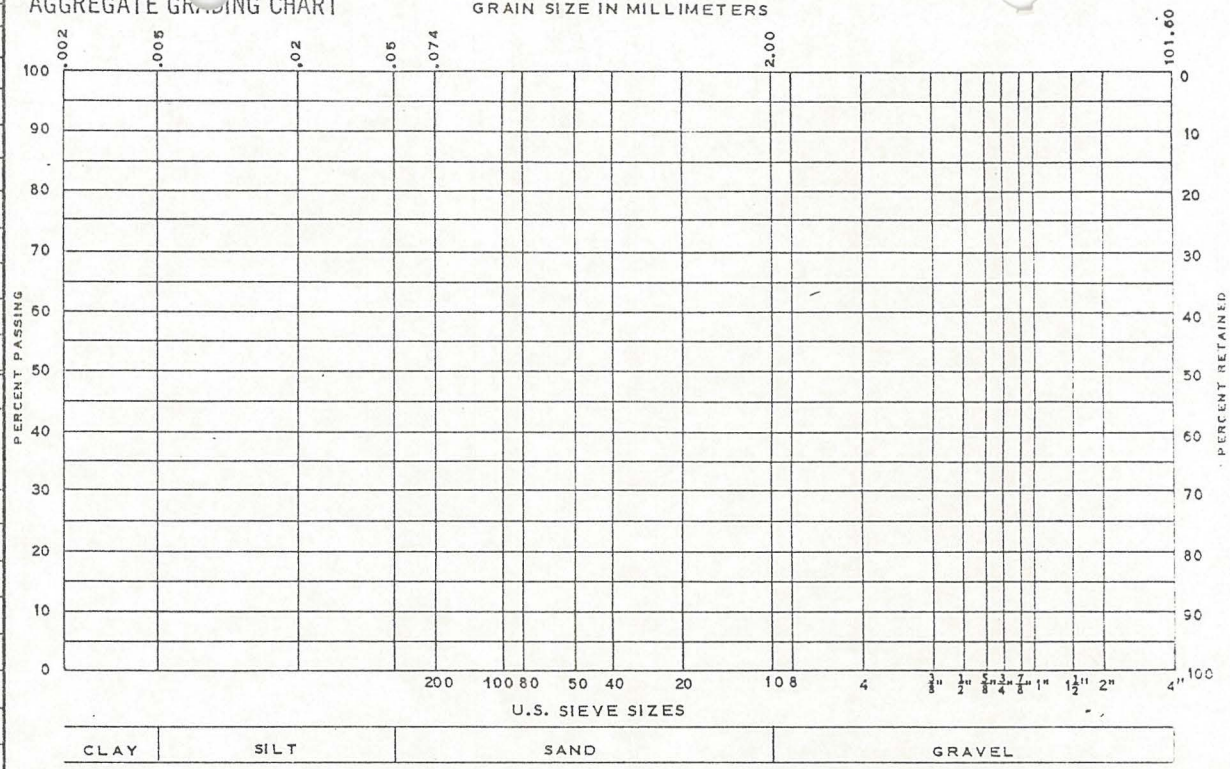
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
		> 75% PASSING #200							
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-7-6 ML	58.0	42.6	15.4							
		MEDIUM PLASTIC INORGANIC SILT.										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STN: 1200 +00

HOLE No. ..... DEPTH 2'-10'

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 266

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

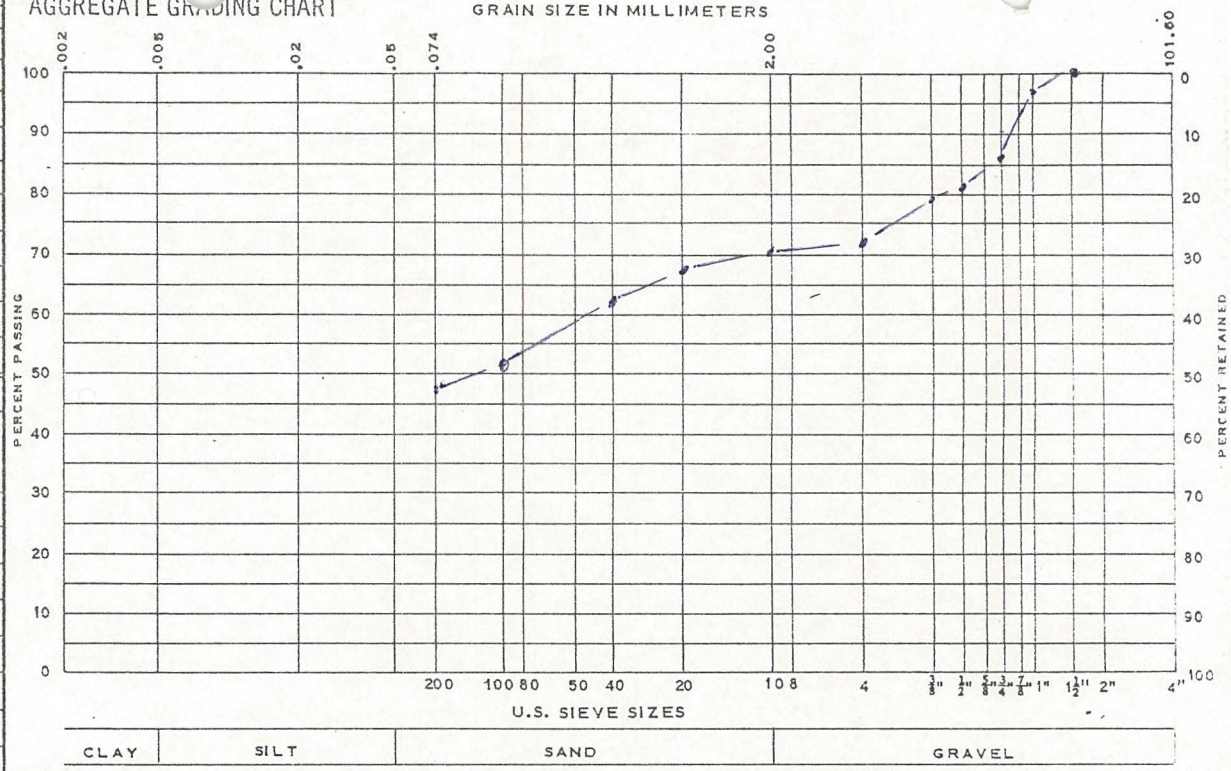
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	1 1/2		70.4	#10					
97.4	1 ~~3/4~~		67.4	#20					
96.9	3/4		63.4	#40					
82.3	1/2		58.4	#100					
79.0	3/8		47.1	#200					
73.6	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	22.1	18.1	4.0							
		SM										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 1195 +00

HOLE No. ..... DEPTH 2'-12'

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 267

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

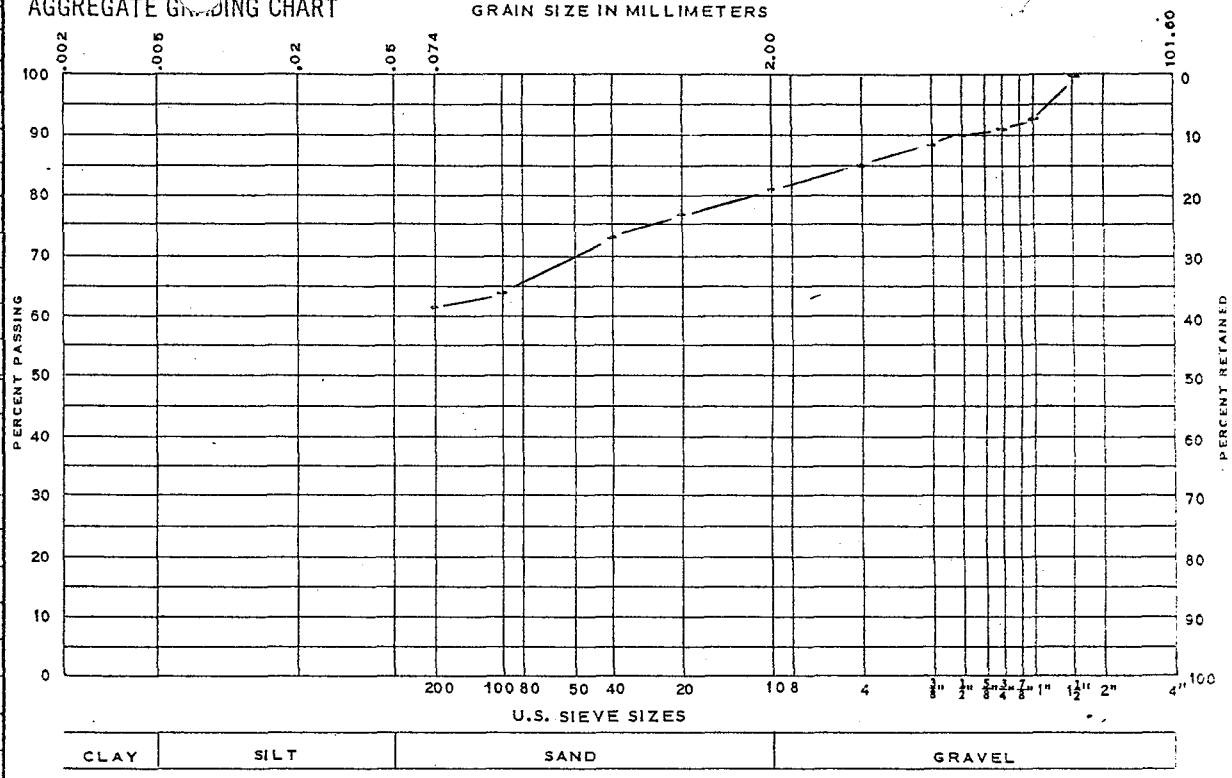
SIEVE ANALYSIS — SAMPLE NUMBER

% FINER BY WEIGHT	SIEVE		% FINER	SIEVE
100.0	1½		80.6	#10
93.3	1		76.5	#20
91.3	¾		73.1	#40
89.6	½		63.8	#100
87.9	⅜		61.7	#200
84.7	#4			
% + 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	36	33	13.2							
		ML										
		INORGANIC SILT AND FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 1190+00

HOLE No.: DEPTH: 7-12'

SAMPLE TYPE: DATE SAMPLED: June/69

FIELD SAMPLE No.: LAB SAMPLE No.: 268

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

1/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

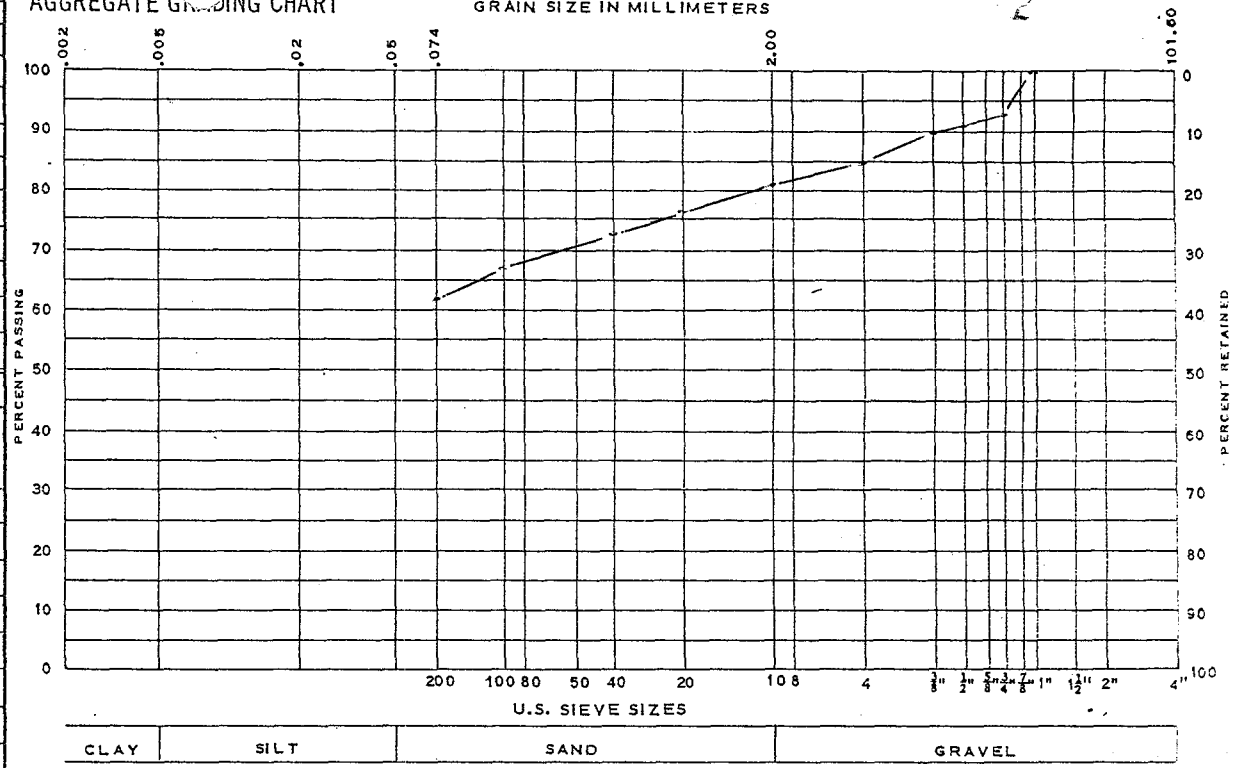
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER											
	SIEVE		% FINER	SIEVE								
100.0	1"		80.7	#10								
93.3	3/4"		76.4	#20								
91.2	1/2"		72.9	#40								
89.6	3/8"		66.7	#100								
85.1	#4		62.2	#200								
% + 4"												

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	21	17	2.3	2.4						
		ML										
		INORGANIC SILT AND FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT Dempster Highway Construction

LOCATION STA 1175+00

HOLE No. ..... DEPTH 4'-10'

SAMPLE TYPE ..... DATE SAMPLED June 16/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 269

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

3/11/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

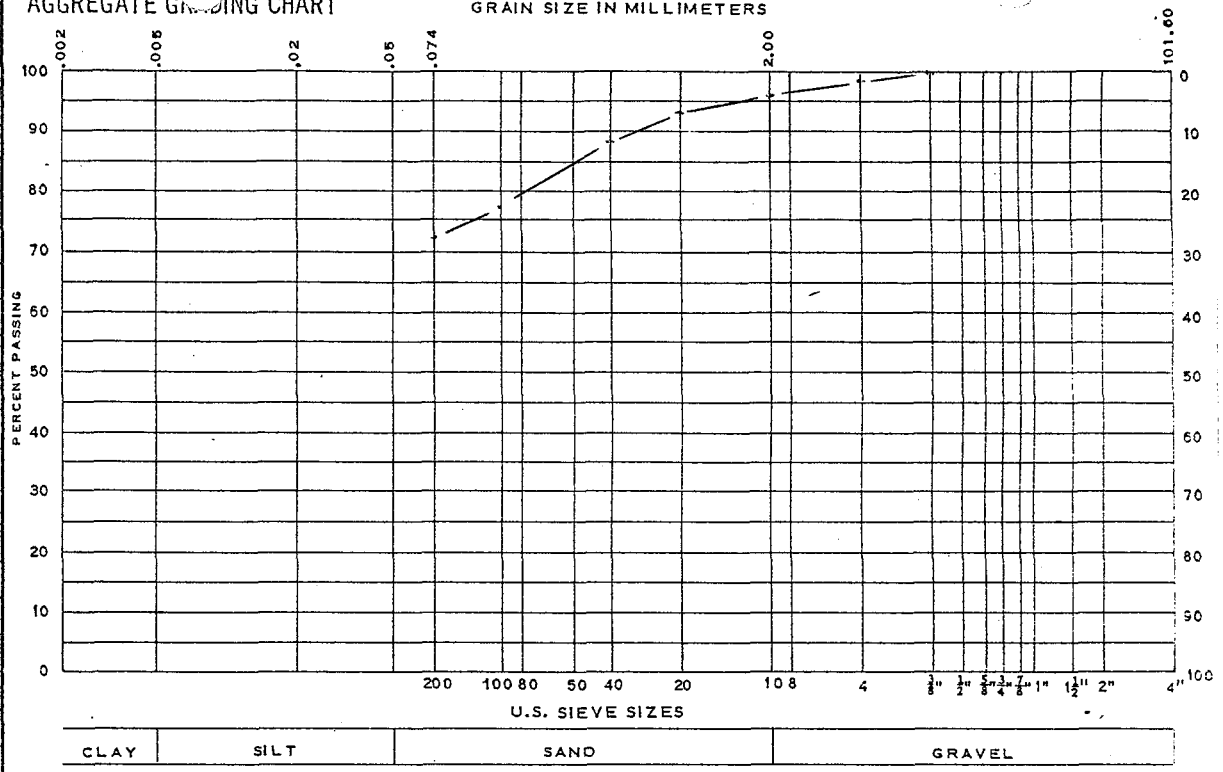
SIEVE ANALYSIS

% FINER BY WEIGHT	SAMPLE NUMBER
SIEVE	
100.0	3/8
98.1	#4
96.3	#10
92.9	#20
88.3	#40
77.3	#100
12.2	#200
% + 4"	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4			0.0							
		ML										
		INORGANIC SILT AND FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT Dempster Highway Construction

LOCATION STA. 1095+00

HOLE No. ..... DEPTH 2-10'

SAMPLE TYPE ..... DATE SAMPLED June/64

FIELD SAMPLE No. ..... LAB SAMPLE No. 270

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

3/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

JD 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

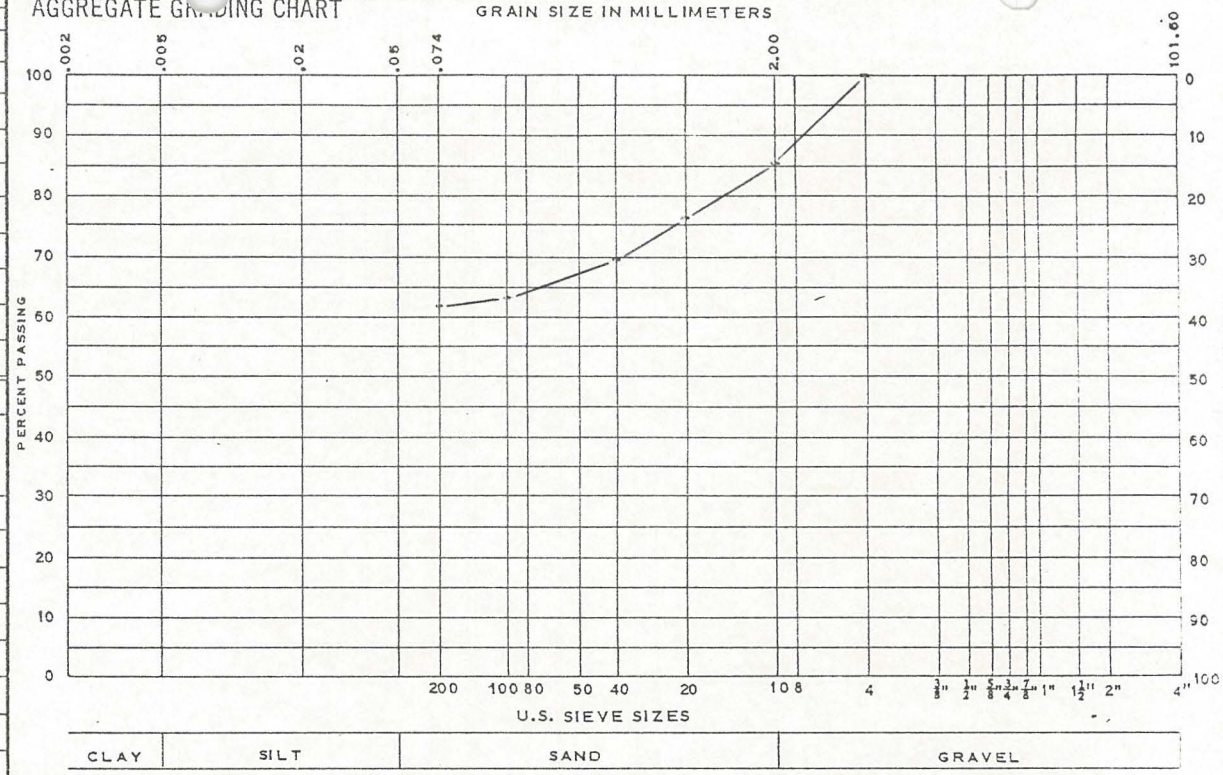
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
	Sieve							
100.0	# 4							
85.5	# 10							
75.9	# 20							
69.8	# 40							
63.5	# 100							
62.1	# 200							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	29	23	6	5.3						
		ML										
		INORGANIC SILT AND FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT Dempster Highway Construction

LOCATION Sta. 1090+00

HOLE No. ____ DEPTH 2-10'

SAMPLE TYPE ____ DATE SAMPLED June/69

FIELD SAMPLE No. ____ LAB SAMPLE No. 271

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

1/11/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

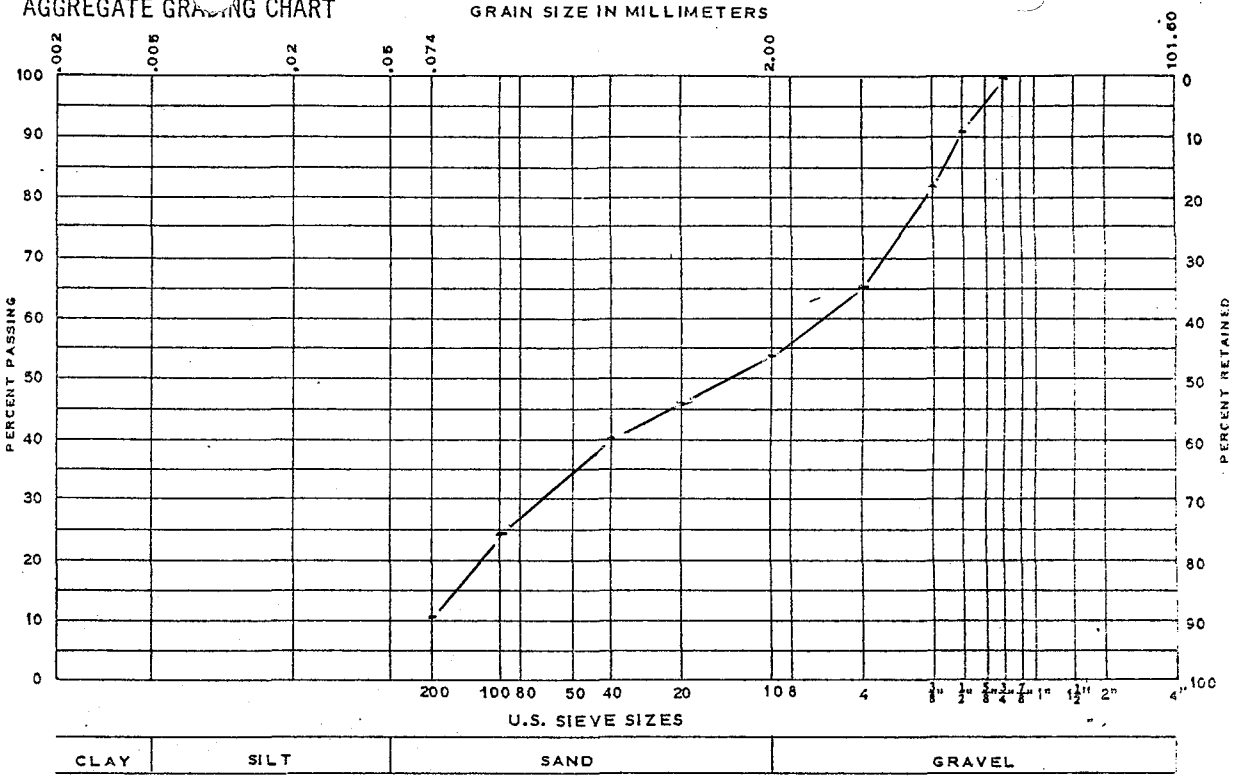
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	3/4"		54.2	10					
90.7	1/2"		45.9	20					
81.8	3/8"		40.2	40					
65.2	#4		24.4	100					
			10.5	200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b										
		GW										
		WELL GRADED - GRAVEL SAND MIXTURE.										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY CONSTRUCTION

LOCATION STA. 1085+00

HOLE No. ..... DEPTH 3'-6'

SAMPLE TYPE ..... DATE SAMPLED JUNE '69

FIELD SAMPLE No. ..... LAB SAMPLE No. 272

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
	SIEVE	% FINER	SIEVE					
100.0	2"	33.6	#10					
25.9	1½"	20.1	#20					
25.8	1"	11.5	#40					
72.9	¾"	6.6	#100					
68.1	½"	5.5	#200					
61.9	⅜"							
48.8	#4							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			N.P							
		G.W										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 1075+00

HOLE No. ..... DEPTH 2'-9'

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 273

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

1/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673-A

AGGREGATE DEPOSIT REPORT (Cont'd)

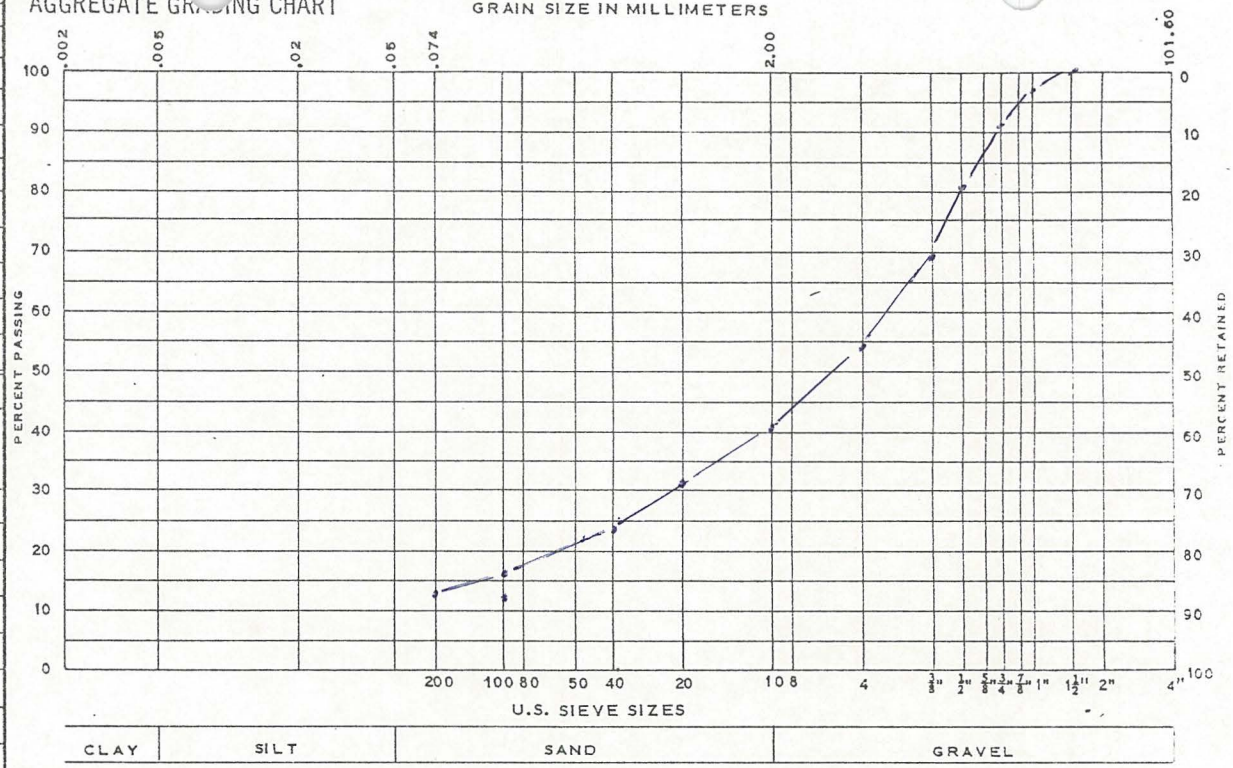
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER									
	SIEVE		% FINER	SIEVE						
100.0	1 1/2		40.3	#10						
97.8	1		30.7	#20						
90.8	3/4		24.5	#40						
80.1	1/2		16.3	#100						
69.5	3/8		13.5	#200						
54.3	#4									
% + 4"										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b (0)	22.5	21.7	0.8							
		SM										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA 1050 +00

HOLE No. ..... DEPTH 3½ - 10'

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 274

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

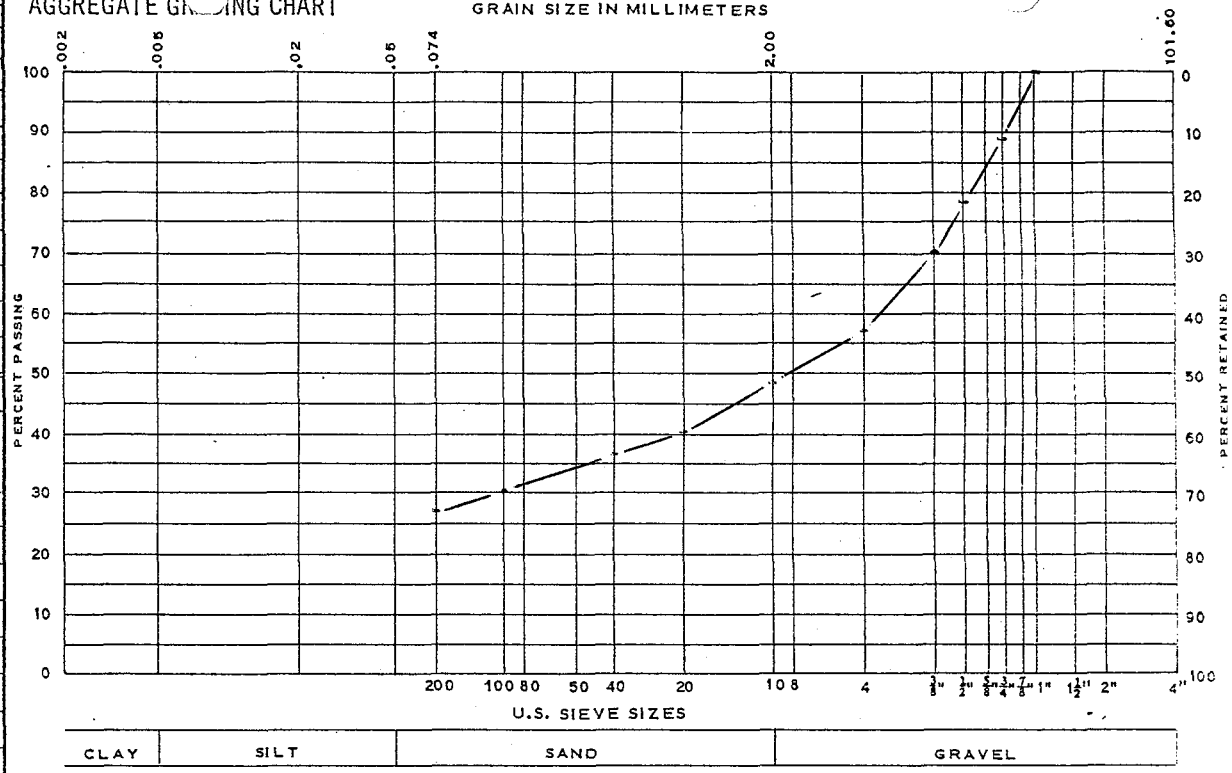
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE	% FINER	SIEVE						
100.0	1"	48.9	#10						
88.9	3/4"	40.4	#20						
78.0	1/2"	36.6	#40						
70.1	3/8"	30.1	#100						
57.1	#4	22.0	#200						
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-2-4	27	22.8	4.2							
		SM										
		SILTY - SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMASTER HIGHWAY CONSTRUCTION

LOCATION STA 1005+00 ℄

HOLE No. ..... DEPTH 0'-5'

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 225

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

2/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

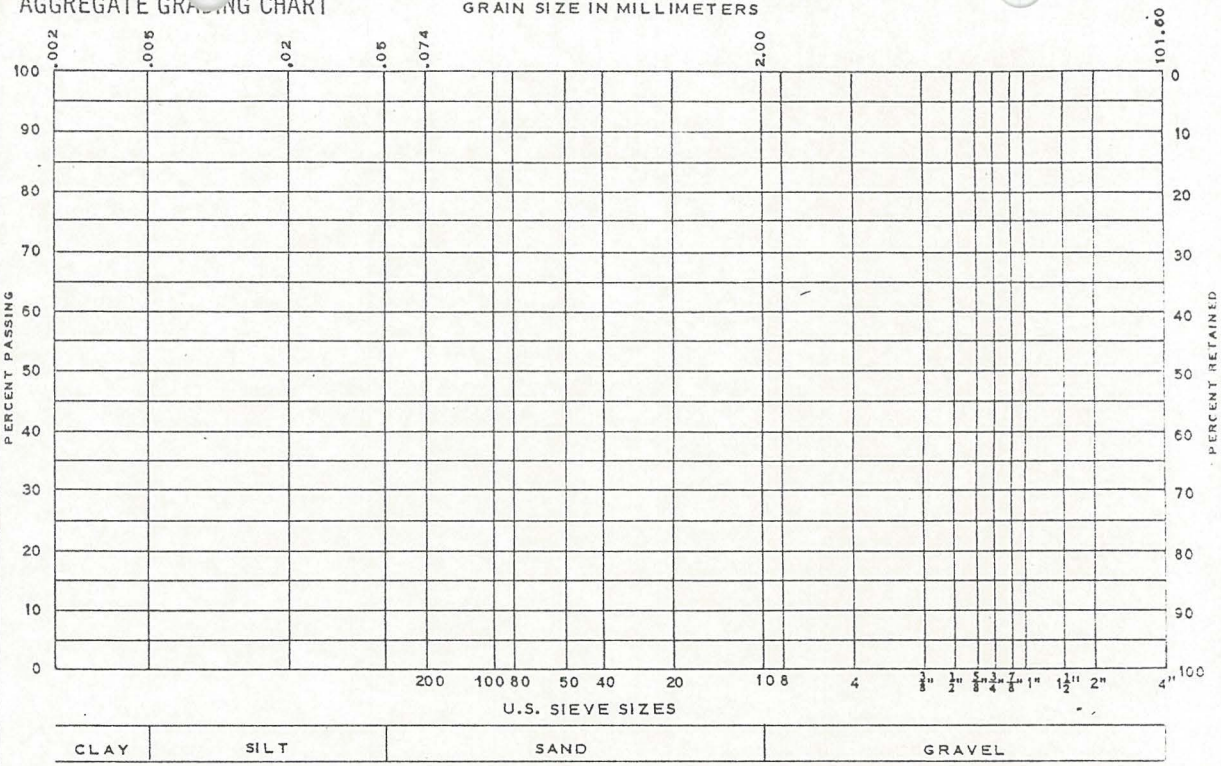
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
		>75% PASSING #200							

% + 4"													
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		14-4	30.1	27.0	3.1							
		ML										
		LO PLASTIC INORGANIC SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STN: 990 +00

HOLE No. ..... DEPTH 3'-6'

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 276

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

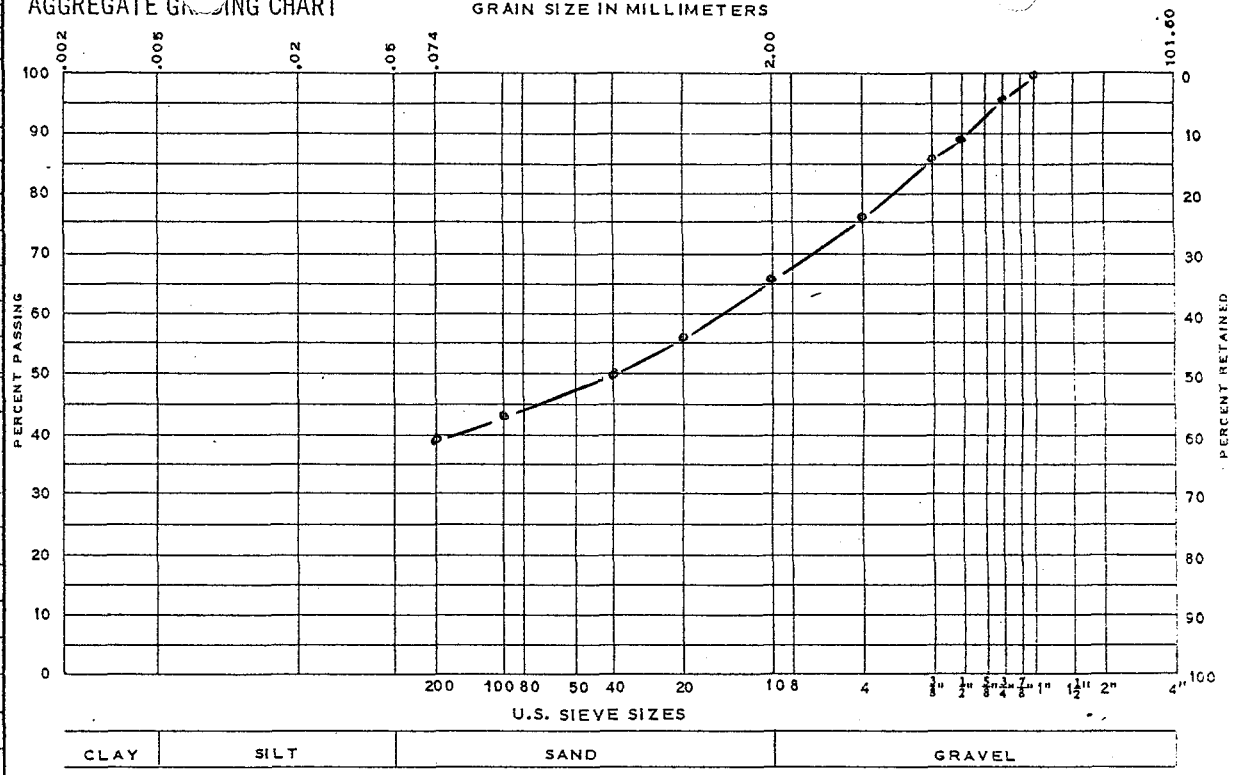
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	1"		65.7	#10					
96.1	3/4"		56.5	#20					
89.0	1/2"		50.1	#40					
85.9	3/8"		43.4	#100					
75.9	#4		38.6	#200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-A 2219334										
		SM										
		SILTY - SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA. 925+00

HOLE No. ..... DEPTH 3-9'

SAMPLE TYPE ..... DATE SAMPLED June/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 277

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

1/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

JD 672 A

AGGREGATE DEPOSIT REPORT (Cont'd)

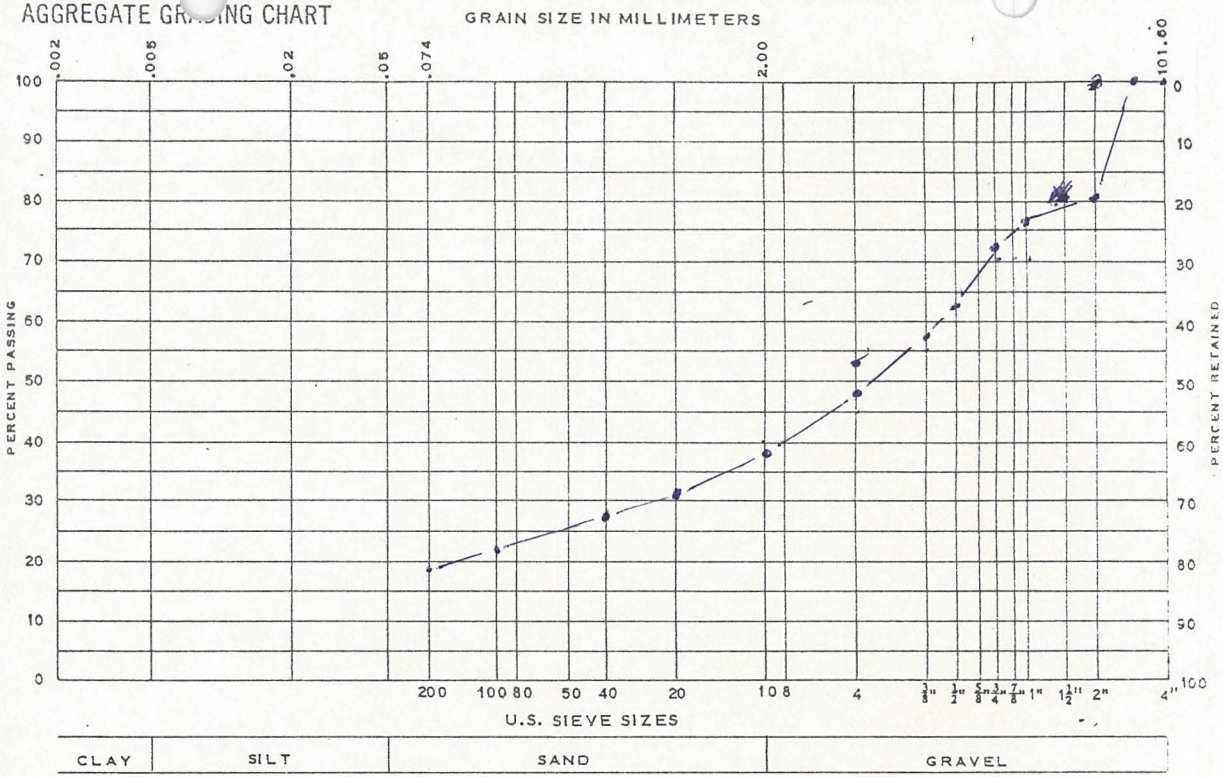
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	3		37.6	#10					
80.2	2		30.9	#20					
	1 1/2		27.4	#40					
76.9	1		22.2	#100					
72.0	3/4		19.9	#200					
63.5	1/2								
57.5	3/8								
47.1	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		GM										
		SILTY GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 905+00

HOLE No. ..... DEPTH 2'-8'

SAMPLE TYPE ..... DATE SAMPLED JUNE/68

FIELD SAMPLE No. ..... LAB SAMPLE No. 278

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

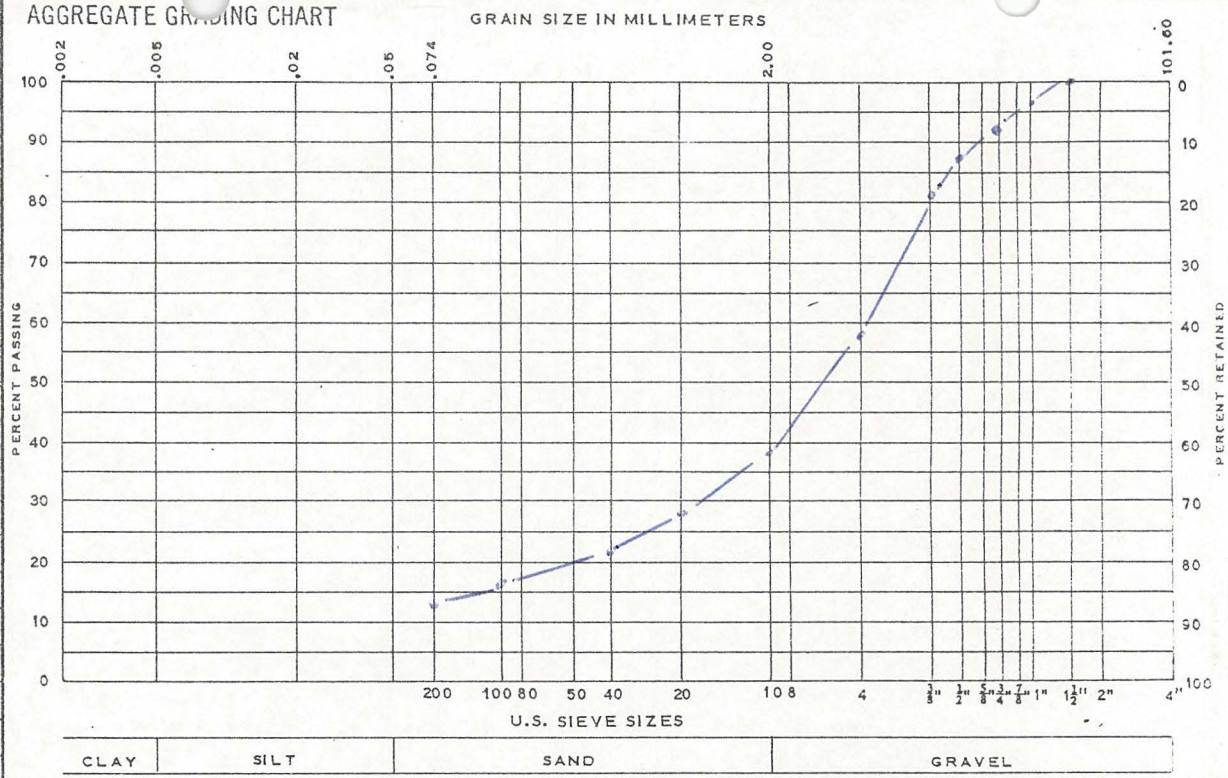
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	1 1/2		36.3	#10					
97.1	1		27.2	#20					
93.6	3/4		22.3	#40					
87.5	1/2		16.7	#100					
80.4	3/8		14.3	#200					
58.8	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a	19.2	18.0	1.5							
		SM										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 880 +00

HOLE No. ..... DEPTH 1'-8'

SAMPLE TYPE ..... DATE SAMPLED JUNE/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 279

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

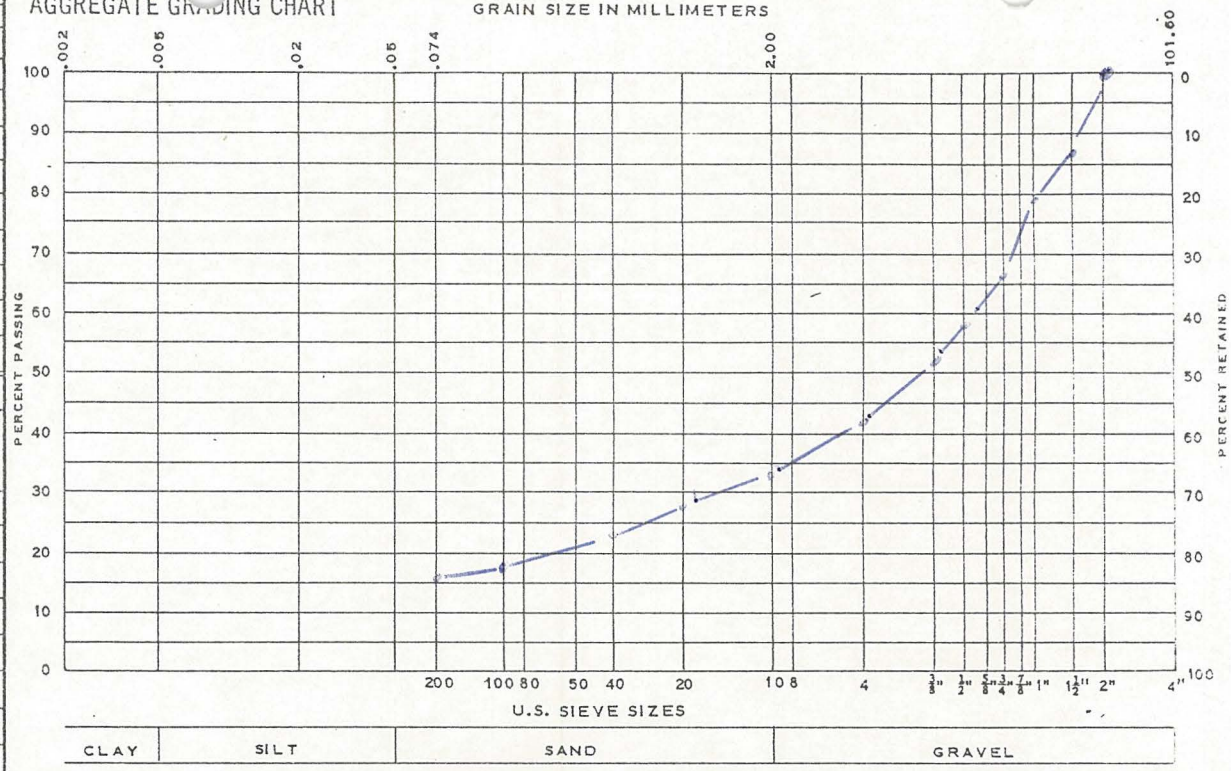
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	2		33.6	#10					
86.0	1 1/2		27.7	#20					
79.4	1		23.7	#40					
66.0	3/4		18.0	#100					
58.5	1/2		15.6	#200					
52.9	3/8								
42.1	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a. GM SILTY GRAVEL	18.9	15.7	3.2							

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 845+00

HOLE No. DEPTH 0 - 5'

SAMPLE TYPE DATE SAMPLED JULY/65

FIELD SAMPLE No. LAB SAMPLE No. 280

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

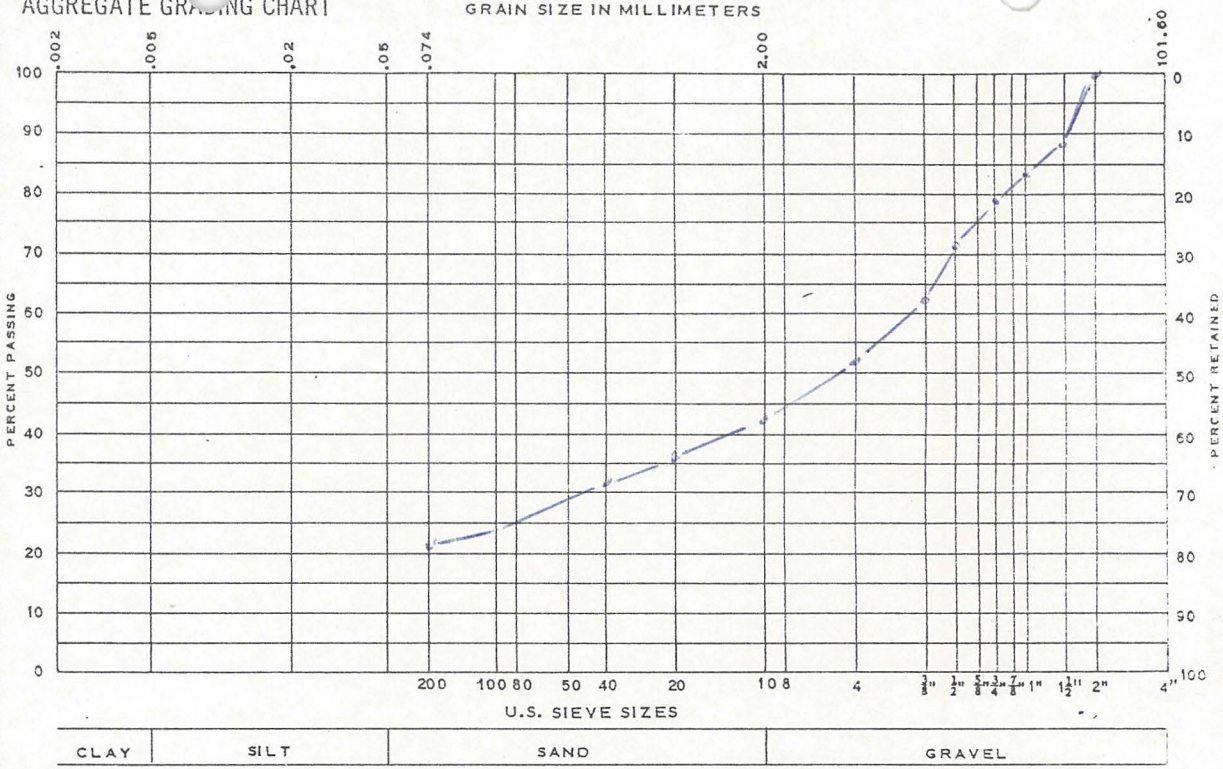
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER SIEVE		% FINER	SIEVE
100.0	2		43.9	#10
88.3	1 1/2		36.6	#20
84.0	1		31.7	#40
79.1	3/4		24.1	#100
70.4	1/2		21.0	#200
62.6	3/8			
53.3	#4			
% + 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b	17.5	15.5	2.0							
		SM										
		SILT SAND MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 820 too & STA 800 too

HOLE No. ..... DEPTH 0-6' : 0-4'

SAMPLE TYPE ..... DATE SAMPLED JULY/68

FIELD SAMPLE No. ..... LAB SAMPLE No. 281 & 282

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

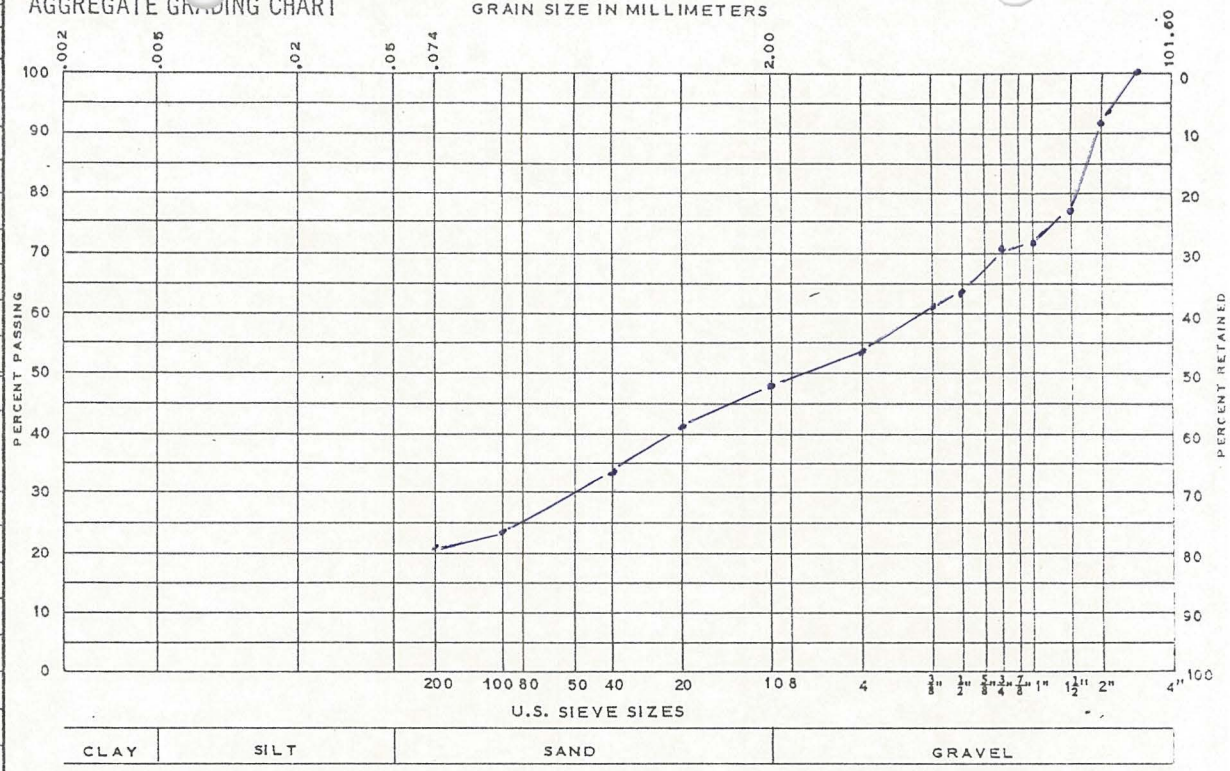
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	3		47.8	#10					
86.9	2		40.8	#20					
78.6	1 1/2		34.5	#40					
72.3	1		29.6	#100					
70.8	3/4		21.2	#200					
64.3	1/2								
61.0	3/8								
54.7	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b SC CLAYEY SAND	18.7	14.0	4.7							

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA. 775+00 ; STA 760+00 ; STA 715+00

HOLE No. ..... DEPTH 2'-9" ; 2'-5" ; 1'-5"

SAMPLE TYPE ..... DATE SAMPLED JULY/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 283-289-295

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ____ DATE ____

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ____ DATE ____

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

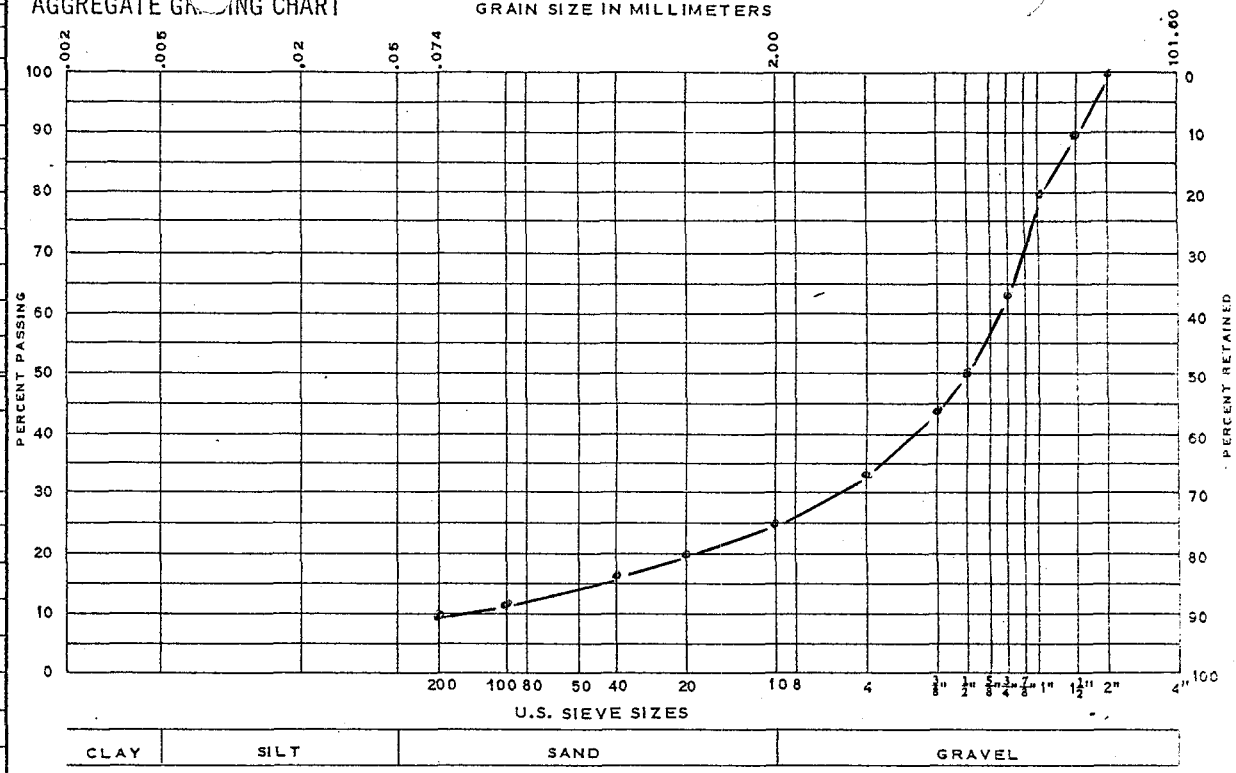
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER		% FINER	SIEVE					
	SIEVE								
100.0	2"		25.0	#10					
89.9	1½"		19.9	#20					
80.5	1"		16.5	#40					
62.9	¾"		12.2	#100					
50.5	½"		9.7	#200					
44.1	⅜"								
33.1	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		GW										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT Demaster Highway Construction

LOCATION STA. ~~665~~ 685+00 ℄

HOLE No. ____ DEPTH 0-6'

SAMPLE TYPE ____ DATE SAMPLED June/69

FIELD SAMPLE No. ____ LAB SAMPLE No. 286

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

2/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

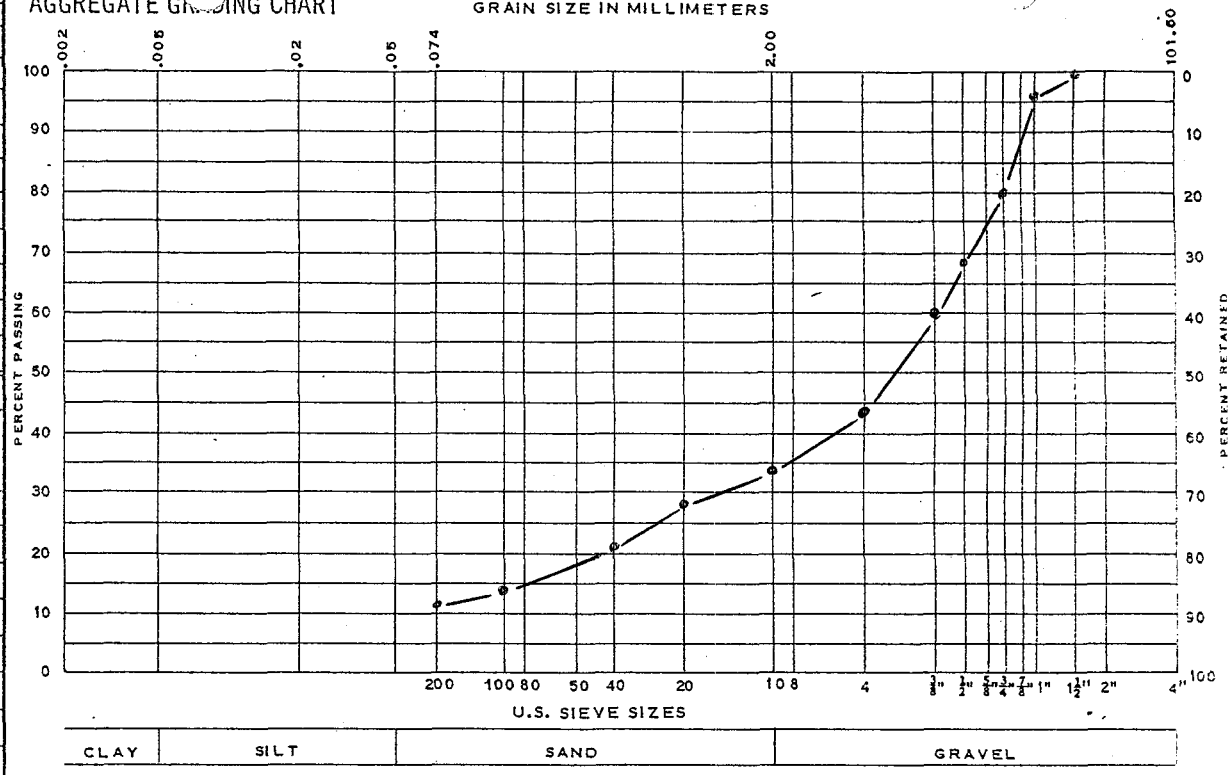
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER		% FINER	SIEVE				
	SIEVE							
100.0	1½"		33.9	#10				
95.8	1"		28.3	#20				
79.9	¾"		21.3	#40				
68.6	½"		14.2	#100				
59.7	⅜"		12.1	#200				
44.4	#4							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a 16.6			16.6	20						
		GW										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT Dempster Highway Construction

LOCATION STA. 675+00

HOLE No. ..... DEPTH 2'-6'

SAMPLE TYPE ..... DATE SAMPLED June 69

FIELD SAMPLE No. ..... LAB SAMPLE No. 287

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

1/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

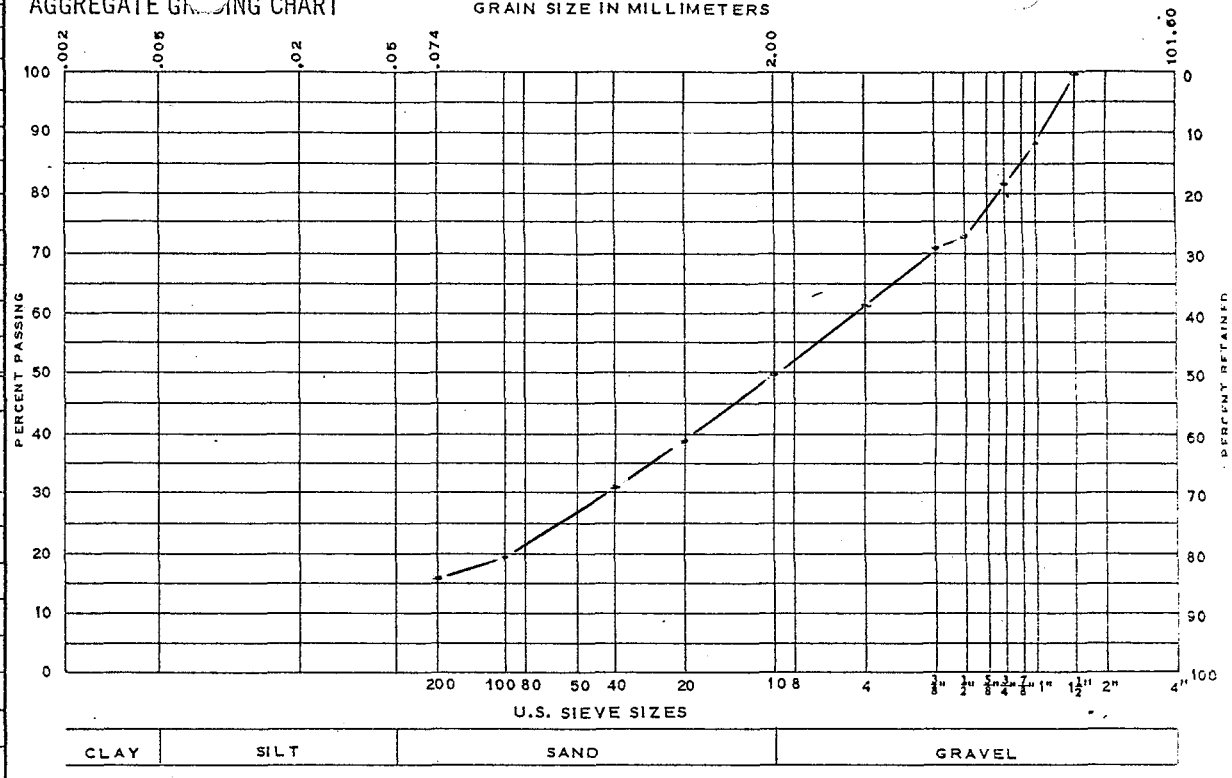
% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER SIEVE	% FINER	SIEVE
100.0	1½"	49.9	#10
88.2	1"	38.9	#20
81.8	¾	30.9	#40
23.9	½"	19.6	#100
21.3	⅜"	15.9	#200
6.1.3	#4		

% + 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b			00							
		GW										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT Demster Highway Construction

LOCATION STA. 605+00

HOLE No. ..... DEPTH 0'-6'

SAMPLE TYPE ..... DATE SAMPLED July/68

FIELD SAMPLE No. ..... LAB SAMPLE No. 288

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

2/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

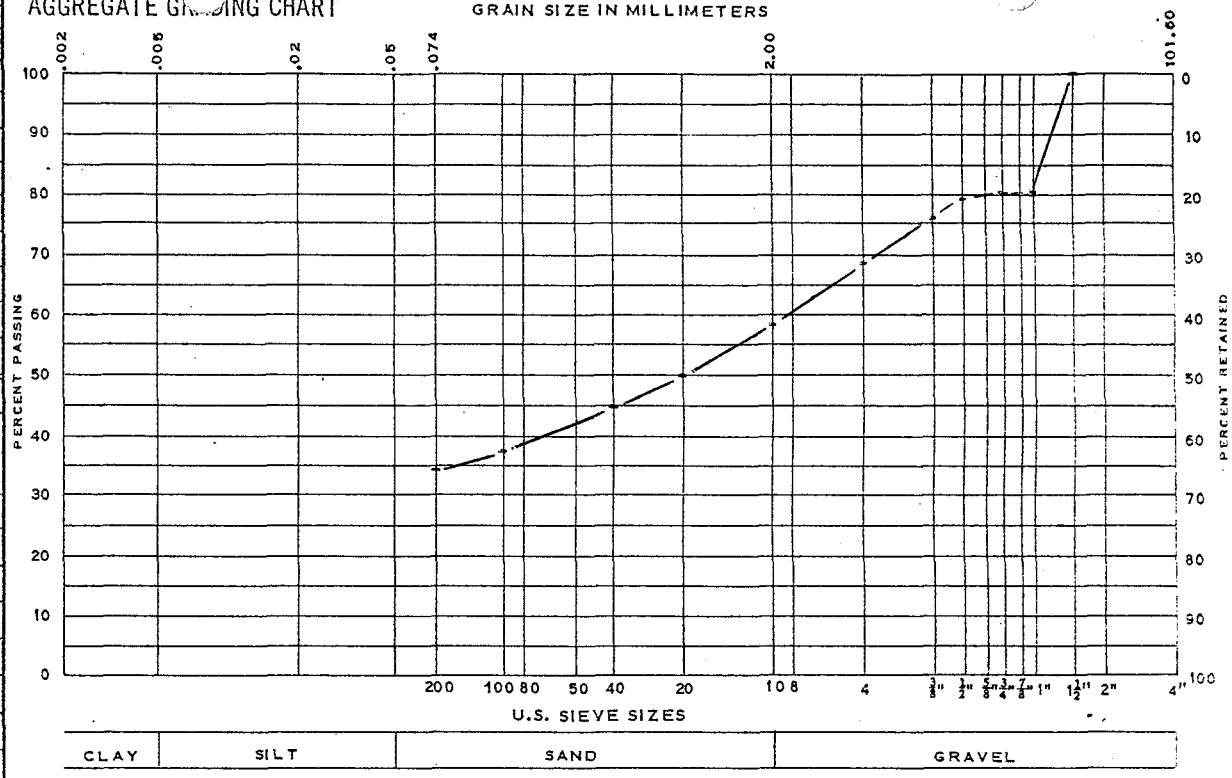
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER SIEVE	% FINER	SIEVE	% FINER
100.0	1½"	57.9	#10	
80.3	1"	50.2	#20	
80.3	¾"	44.9	#40	
79.1	½"	37.4	#100	
25.5	⅜"	34.5	#200	
67.7	#4			
% + 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-2-4	17.9	17.1	0.8							
		SM										
		SILTY - SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA. 555+00 ℄

HOLE No. ..... DEPTH 1'-4'

SAMPLE TYPE ..... DATE SAMPLED JULY/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 289

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE 2/4/70

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

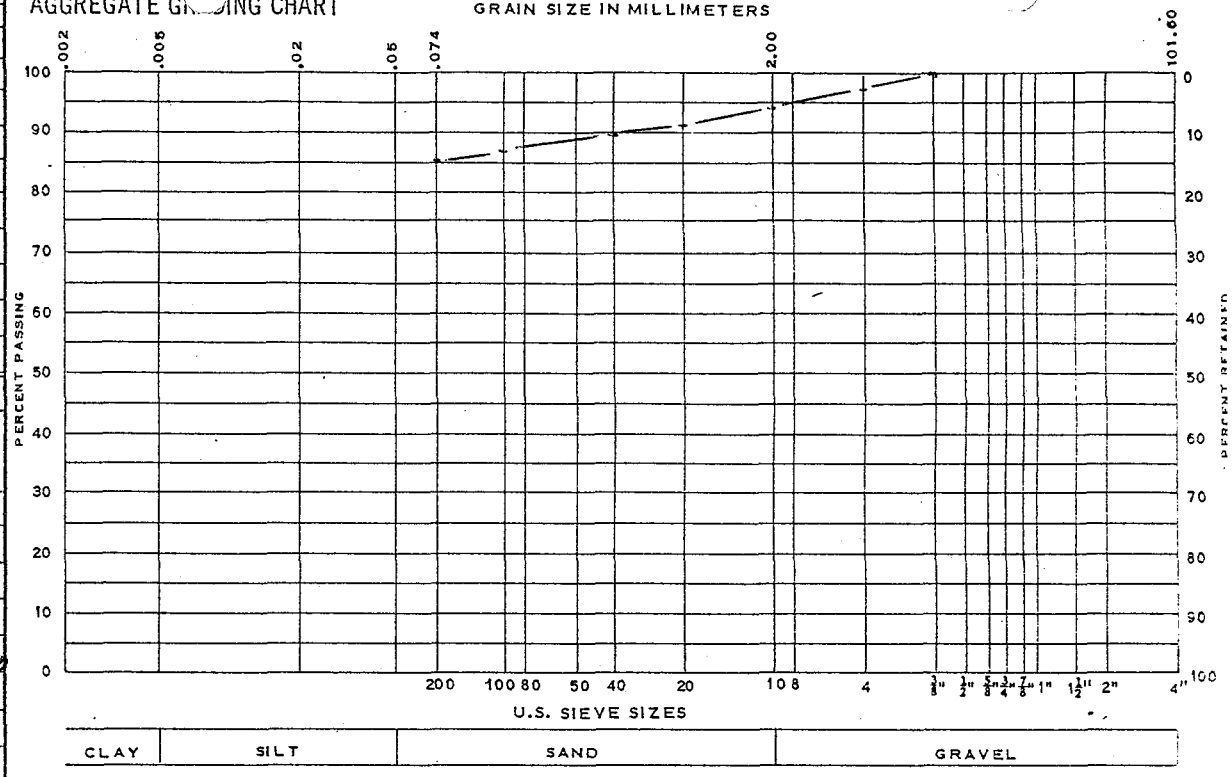
% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER
	SIEVE
100.0	3/8
96.9	# 4
94.2	# 10
91.4	# 20
89.6	# 40
87.0	# 100
85.5	# 200

% + 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	25.0	21.5	0.5							
		ML										
		INORGANIC SILT AND VERY FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 555+00

HOLE No. ..... DEPTH: 4'-6'

SAMPLE TYPE ..... DATE SAMPLED: JULY/65

FIELD SAMPLE No. ..... LAB SAMPLE No.: 290

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

3/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

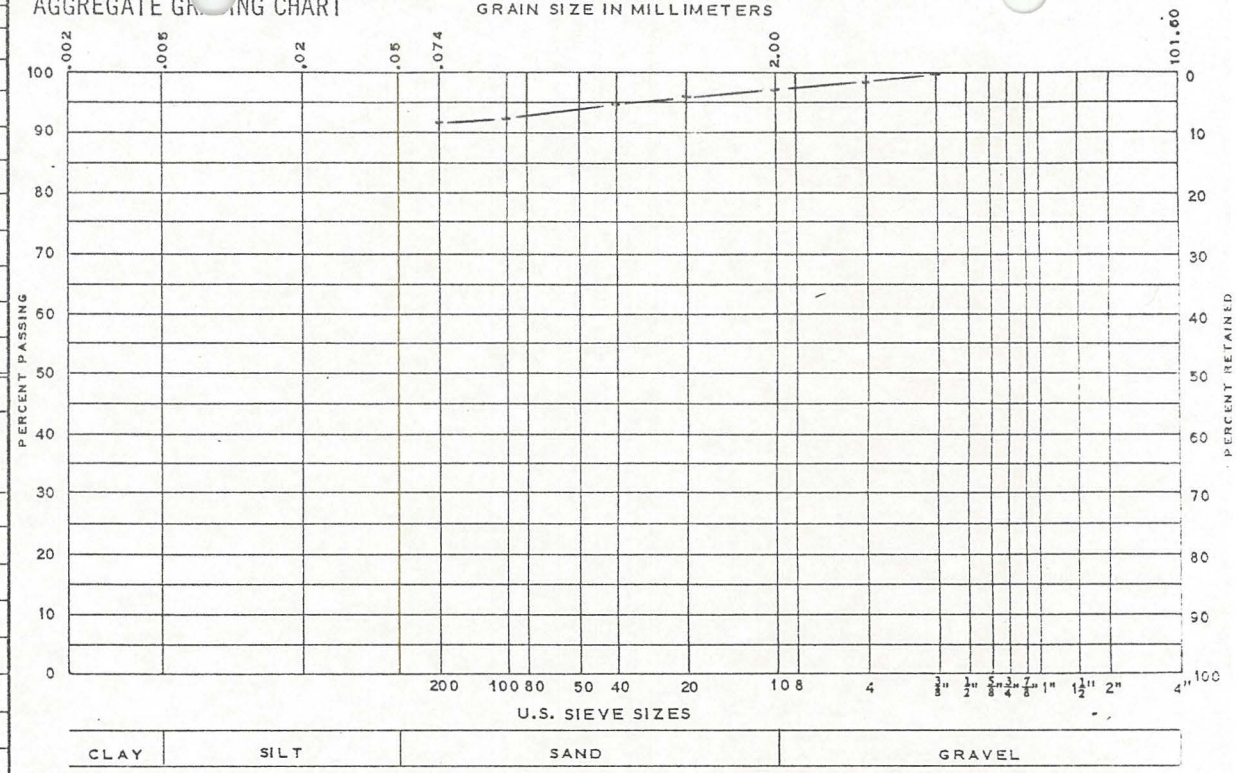
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE								
100.0	3/8								
98.0	#4								
97.0	#10								
95.8	#30								
94.7	#40								
92.7	#100								
91.4	#200								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4				030						
		ML										
		INORGANIC SILT AND VERY FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA. 555+00

HOLE No. ..... DEPTH 6'-8'

SAMPLE TYPE ..... DATE SAMPLED JULY/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 291

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

1/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673-A

AGGREGATE DEPOSIT REPORT (Cont'd)

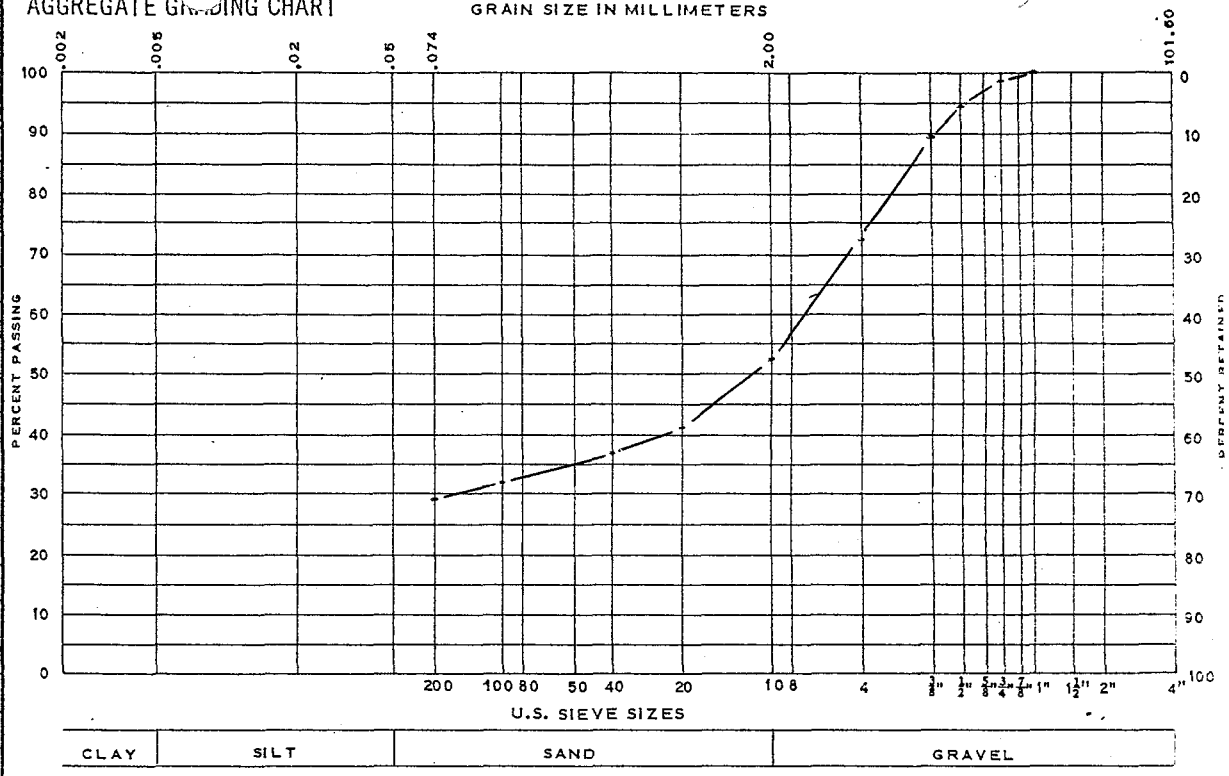
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER SIEVE		% FINER	SIEVE				
100.0	1"		52.6	#10				
97.6	3/4"		40.9	#20				
94.2	1/2"		36.6	#40				
89.6	3/8"		31.5	#100				
72.3	#4		28.9	#200				
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-2-4 22 9 17.6 5.3										
		SM										
		SILTY-SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 550+00 ℄

HOLE No. ____ DEPTH: 1½ - 10'

SAMPLE TYPE ____ DATE SAMPLED: JULY 1/69

FIELD SAMPLE No. ____ LAB SAMPLE No.: 292

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

DATE: 2/4/70

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

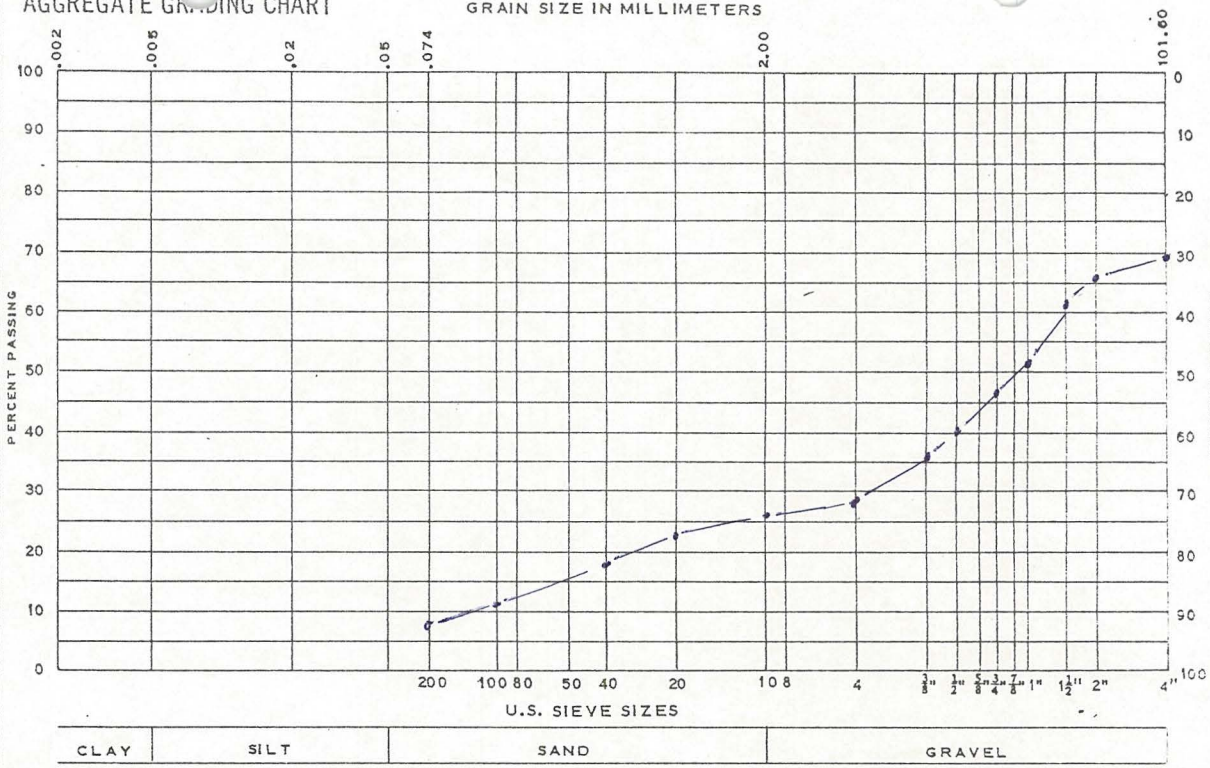
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
69.9	4		26.3	#10					
—	3		23.1	#20					
65.3	2		17.5	#40					
61.1	1 1/2		10.7	#100					
52.3	1		8.5	#200					
46.7	3/4								
40.0	1/2								
35.1	3/8								
28.0	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		GP-GM										
		POORLY GRADED SILTY GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 495 +00

HOLE No. ..... DEPTH 1'-8'

SAMPLE TYPE ..... DATE SAMPLED JULY/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 293

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

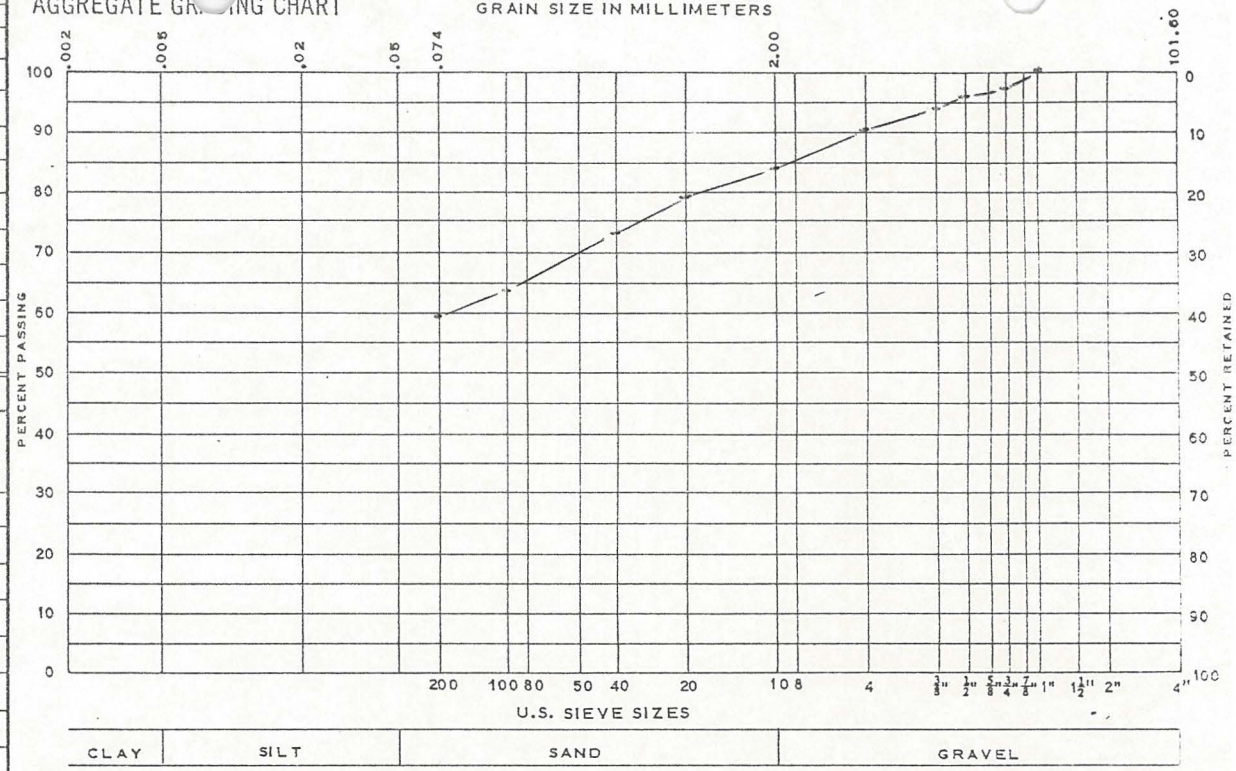
SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	1"		84.4	#10					
97.4	3/4"		78.5	#20					
96.5	1/2"		73.4	#40					
93.9	3/8"		64.0	#100					
90.2	#4		54.8	#200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	27	23	4							
		ML										
		INORGANIC SILT AND FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 480+00

HOLE No. ____ DEPTH: 0-5'

SAMPLE TYPE ____ DATE SAMPLED: JULY 1/69

FIELD SAMPLE No. ____ LAB SAMPLE No.: 294

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/4/70
DATE

SX

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

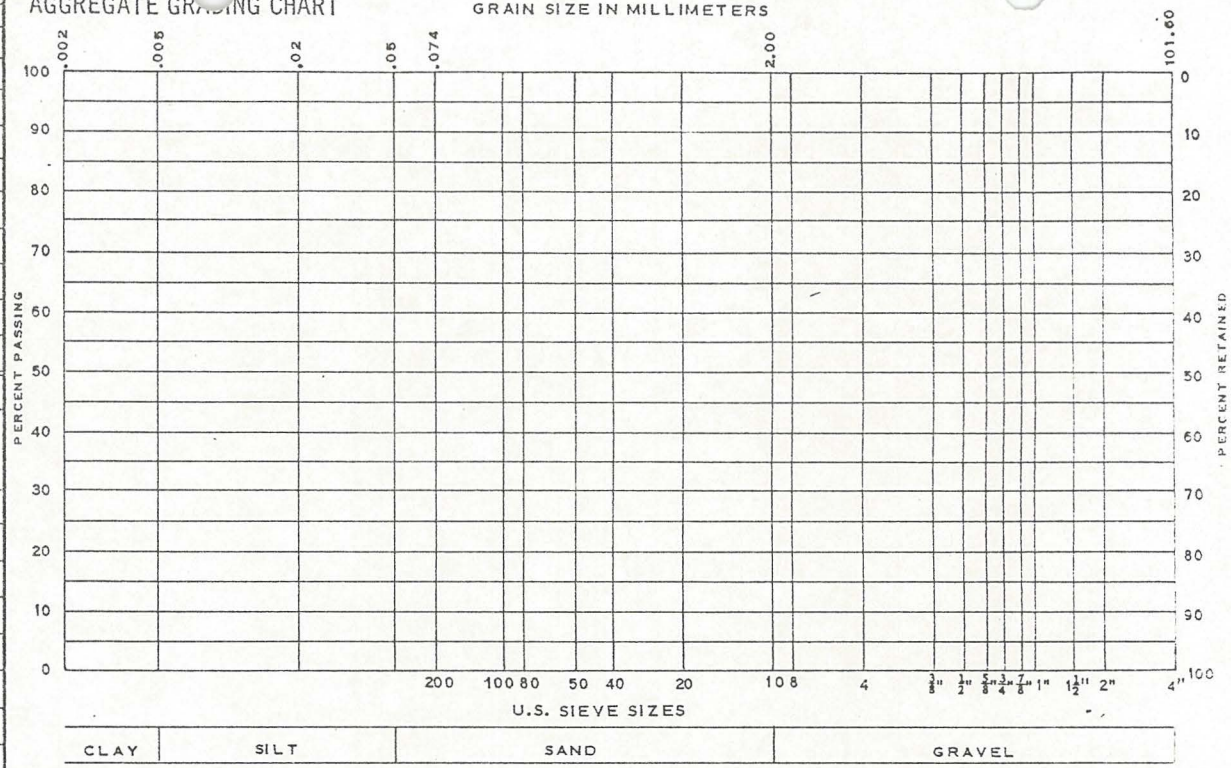
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		~~OL~~ PT										
		HIGHLY ORGANIC SOIL										
		PEAT.										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA. 475+00

HOLE No. ..... DEPTH 1'-6'

SAMPLE TYPE ..... DATE SAMPLED JULY/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 295

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/1/70
DATE EA.

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

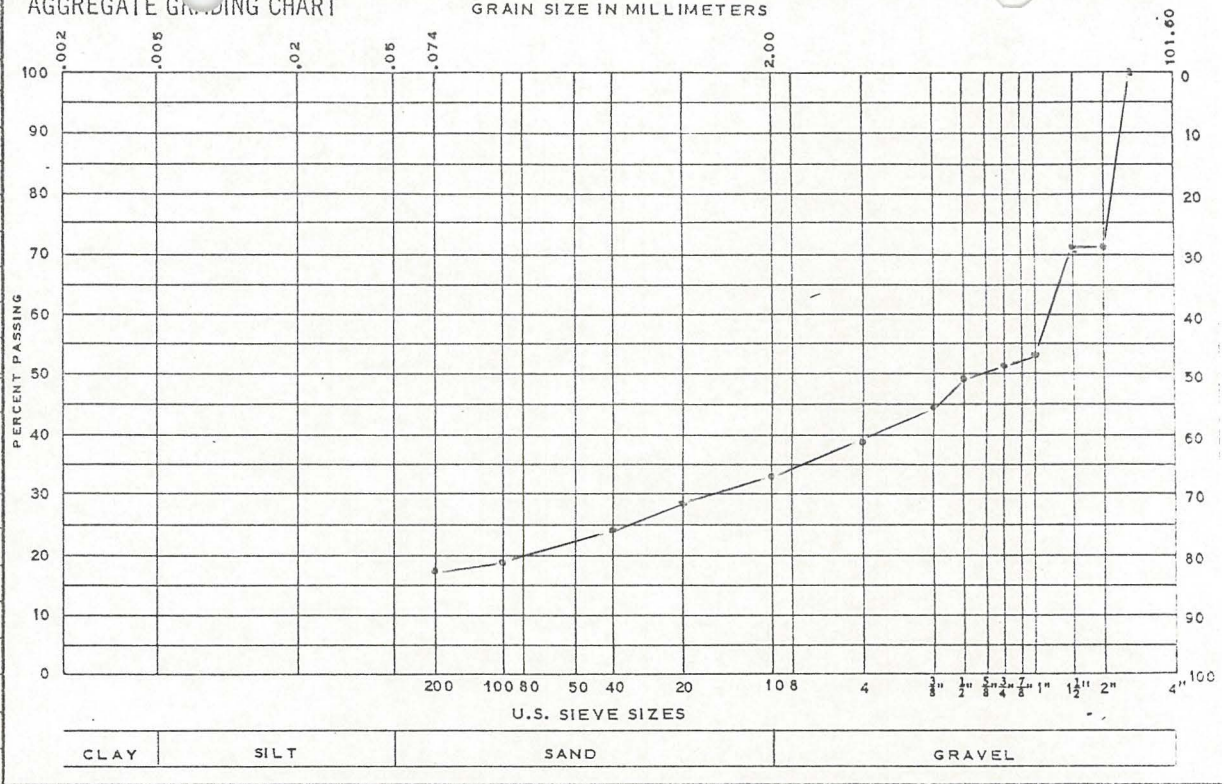
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
	SIEVE		% FINER	SIEVE				
100.0	3"		33.1	#10				
70.6	2"		27.9	#20				
70.6	1½"		24.1	#40				
53.2	1"		18.6	#100				
51.2	¾"		17.4	#200				
48.6	½"							
44.6	⅜"							
38.9	#4							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b	21.1	15.1	6.0							
		GM-GC										
		SILTY - GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA 445+00 ℄

HOLE No.: DEPTH: 4'-9'

SAMPLE TYPE: DATE SAMPLED: JULY 1/69

FIELD SAMPLE No.: LAB SAMPLE No.: 296

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/4/70
DATE

GA

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673-A

AGGREGATE DEPOSIT REPORT (Cont'd)

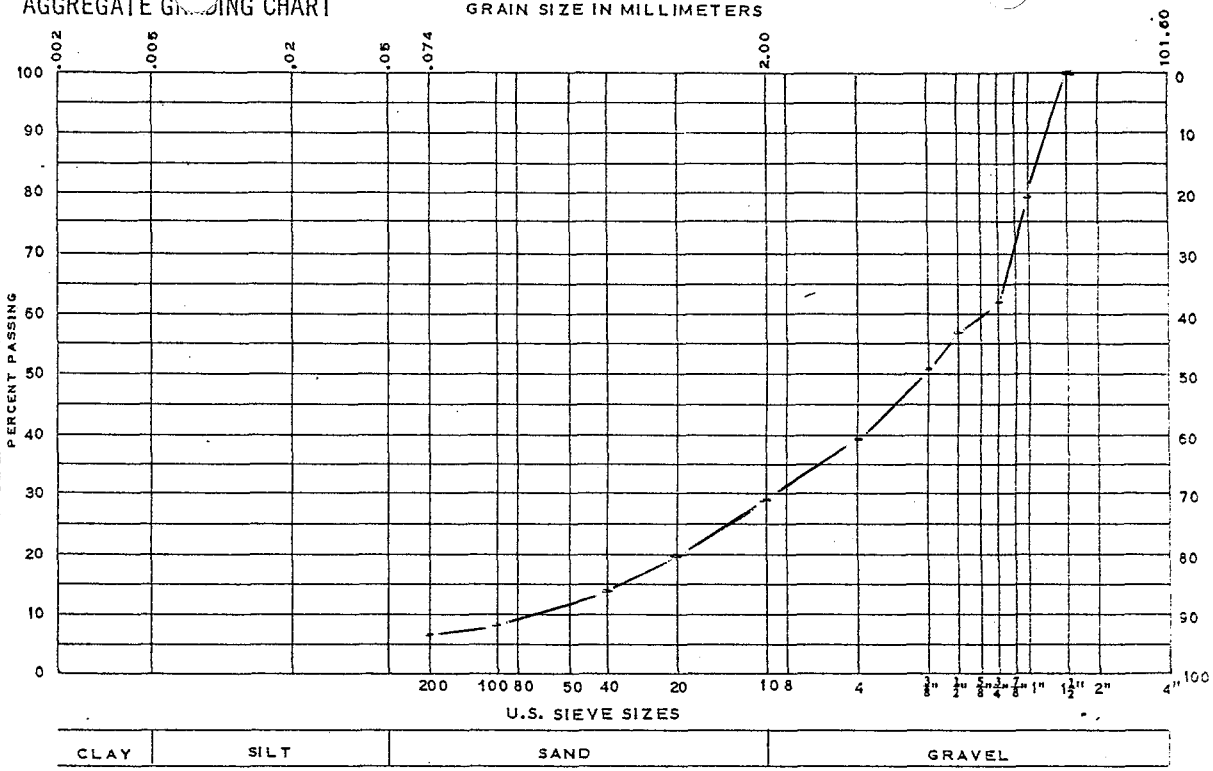
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE	% FINER	SIEVE						
100.0	1½"	29.1	#10						
79.4	1"	20.1	#20						
61.8	¾"	14.1	#40						
56.5	½"	8.1	#100						
50.6	⅜"	6.6	#200						
39.5	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a				0.0						
		GW										
		WELL-GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA 410+00

HOLE No.: DEPTH: 1'-6'

SAMPLE TYPE: DATE SAMPLED: JULY/69

FIELD SAMPLE No.: LAB SAMPLE No.: 297

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER — DATE: 2/4/70

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER — DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

SIEVE ANALYSIS

SAMPLE NUMBER

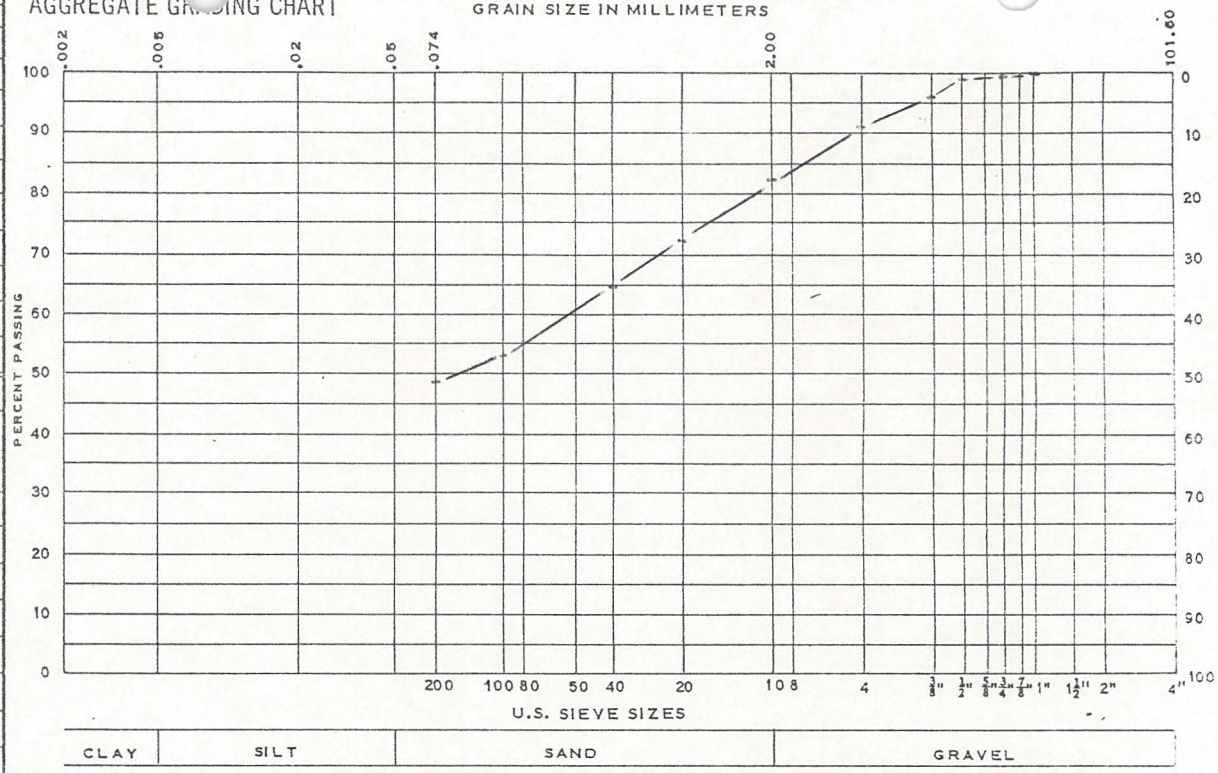
% FINER BY WEIGHT	SIEVE	% FINER	SIEVE
100.0	1"	82.5	#10
98.8	3/4"	72.4	#20
97.9	1/2"	64.7	#40
96.2	3/8"	53.3	#100
91.3	#4	18.5	#200

% + 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	27	22	5	4.6						
		ML										
		INORGANIC SILT AND FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA 395+00

HOLE No.: DEPTH: 1'-6'

SAMPLE TYPE: DATE SAMPLED: JULY/69

FIELD SAMPLE No.: LAB SAMPLE No.: 298

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

1/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

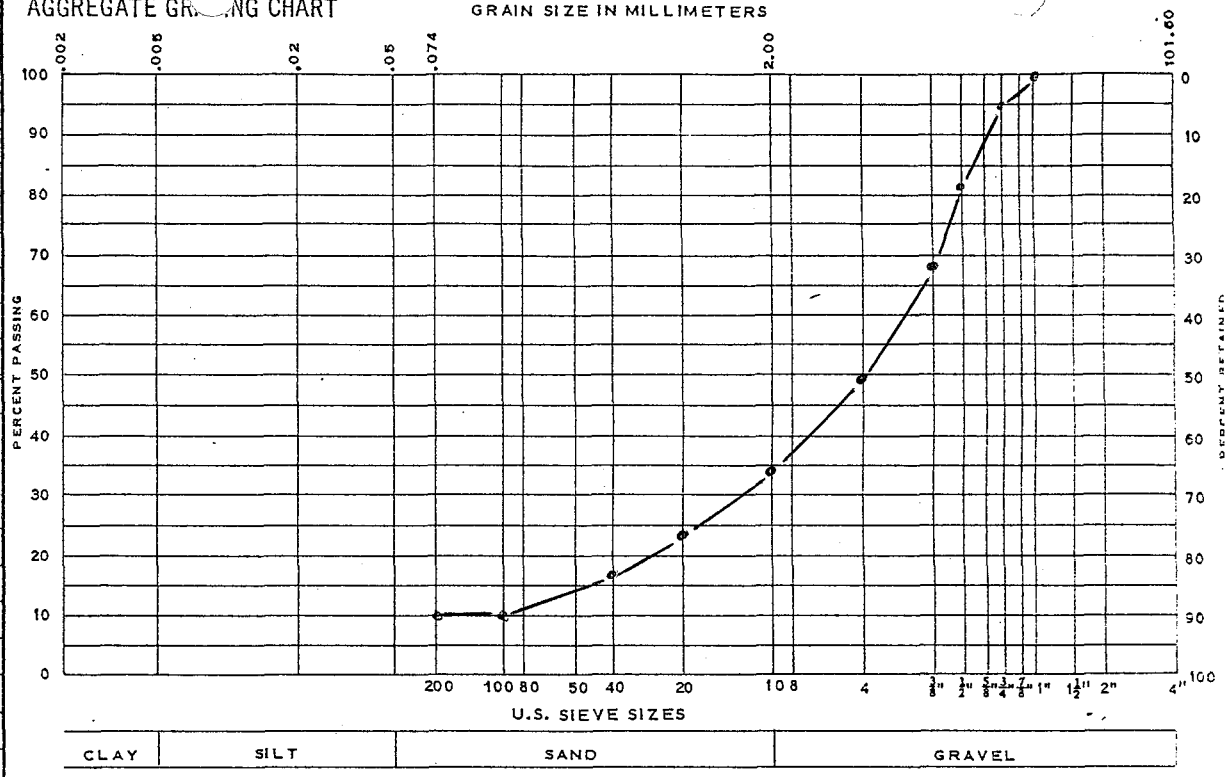
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	1"		34.4	#10					
94.6	3/4"		23.8	#20					
81.6	1/2"		17.1	#40					
68.4	3/8"		10.4	#100					
49.5	#4		10.1	#200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSp.G	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		GW										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT Dempster Highway Construction

LOCATION STA 370+00

HOLE No. ..... DEPTH 0-6'

SAMPLE TYPE ..... DATE SAMPLED Jul 4/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 299

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

1/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

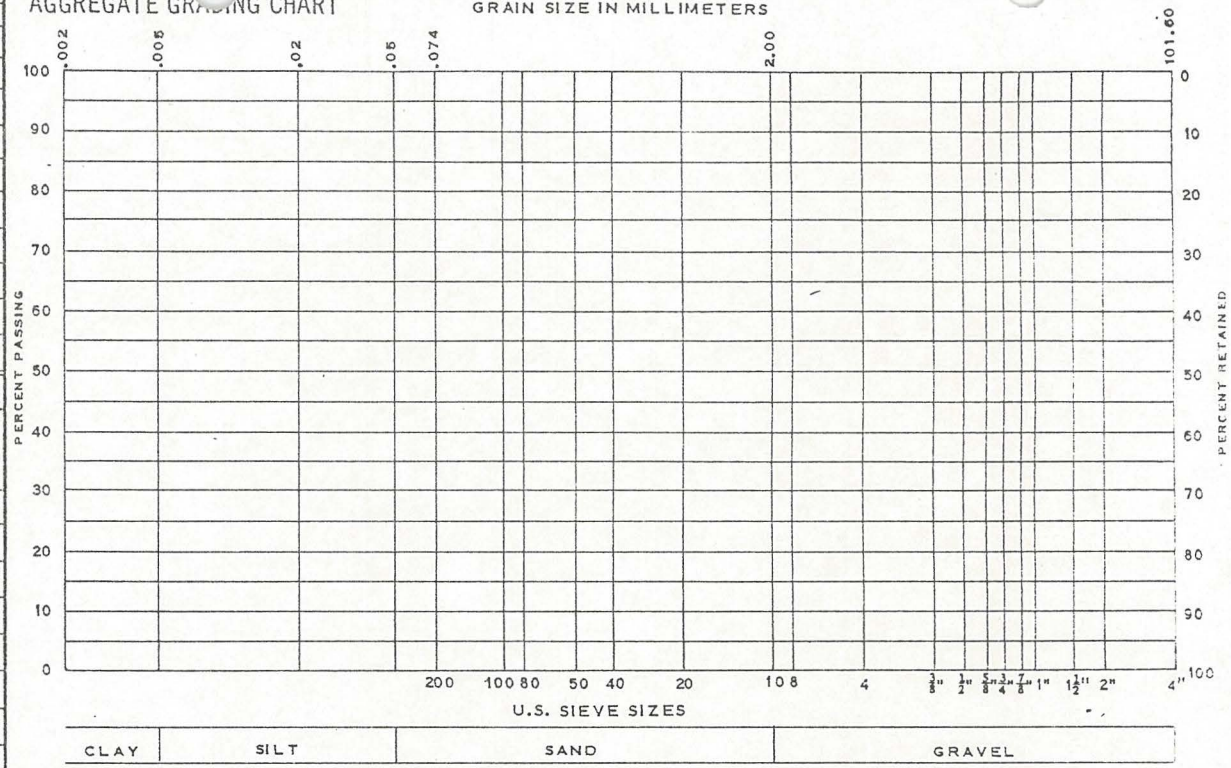
SIEVE ANALYSIS

% FINER BY WEIGHT	SAMPLE NUMBER								
	>75% PASSING #200.								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4 ML	33.7	25.1	8.6							
		LO PLASTIC INORGANIC SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STN: 255+00

HOLE No. ..... DEPTH 1'12' - 8'

SAMPLE TYPE ..... DATE SAMPLED JULY/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 300

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

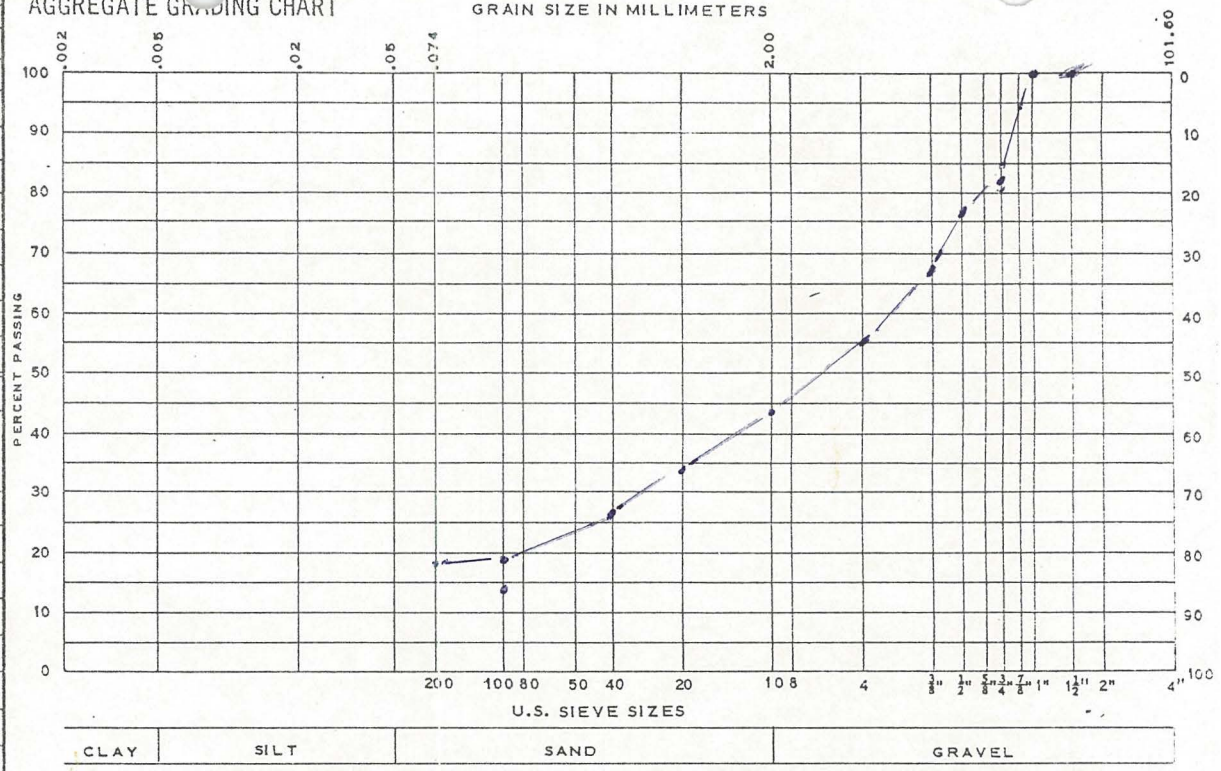
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	1		44.2	#10					
82.4	3/4		34.6	#20					
75.4	1/2		26.7	#40					
67.2	3/8		19.9	#100					
56.0	#4		18.3	#200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-2-6 SM SILTY SAND	36.9	25.8	11.1							

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA: 350+00

HOLE No. ..... DEPTH 0 - 9'

SAMPLE TYPE ..... DATE SAMPLED JULY/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 301

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

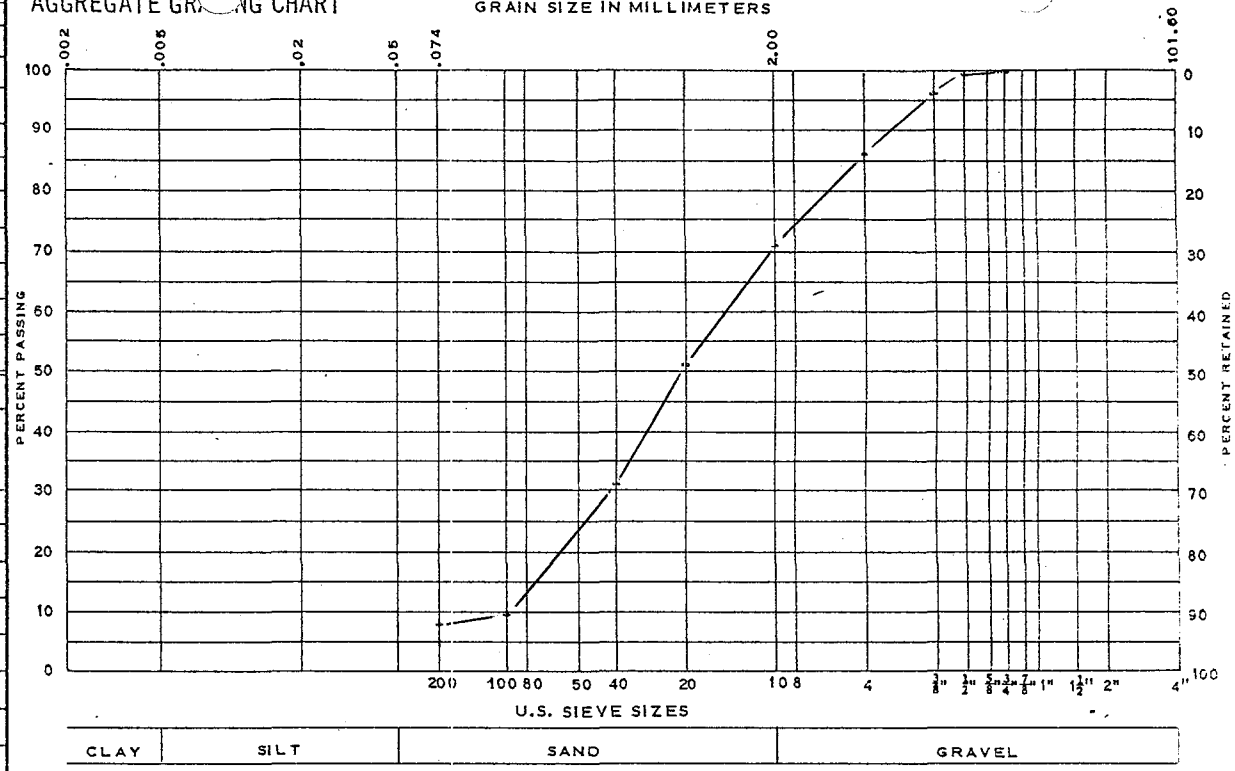
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	3/4"		71.1	#10					
99.1	1/2		51.2	#20					
95.7	3/8		31.1	#40					
86.2	#4		9.8	#100					
			7.8	#200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b			N.P.							
		SW										
		WELL GRADED SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMASTER HIGHWAY CONSTRUCTION

LOCATION STA. 345+00

HOLE No. ..... DEPTH 2-6'

SAMPLE TYPE ..... DATE SAMPLED JULY/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 302

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

3/4/70
DATE

EA

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	> 75% PASSING #200								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		~~A-4~~										
		A-4	33	24	9.0							
		AL.										
		Lo PLASTIC INORGANIC SILT.										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .05 .074 2.00 101.60

PERCENT PASSING: 100 90 80 70 60 50 40 30 20 10 0

PERCENT RETAINED: 0 10 20 30 40 50 60 70 80 90 100

200 100 80 50 40 20 10 8 4 $\frac{3}{8}$" $\frac{1}{2}$" $\frac{5}{8}$" $\frac{3}{4}$" $\frac{7}{8}$" 1" $1\frac{1}{2}$" 2" 4"

U.S. SIEVE SIZES

CLAY | SILT | SAND | GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STN ~~345~~ +00

HOLE No. ..... DEPTH 6'-10'

SAMPLE TYPE ..... DATE SAMPLED JULY/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 303

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

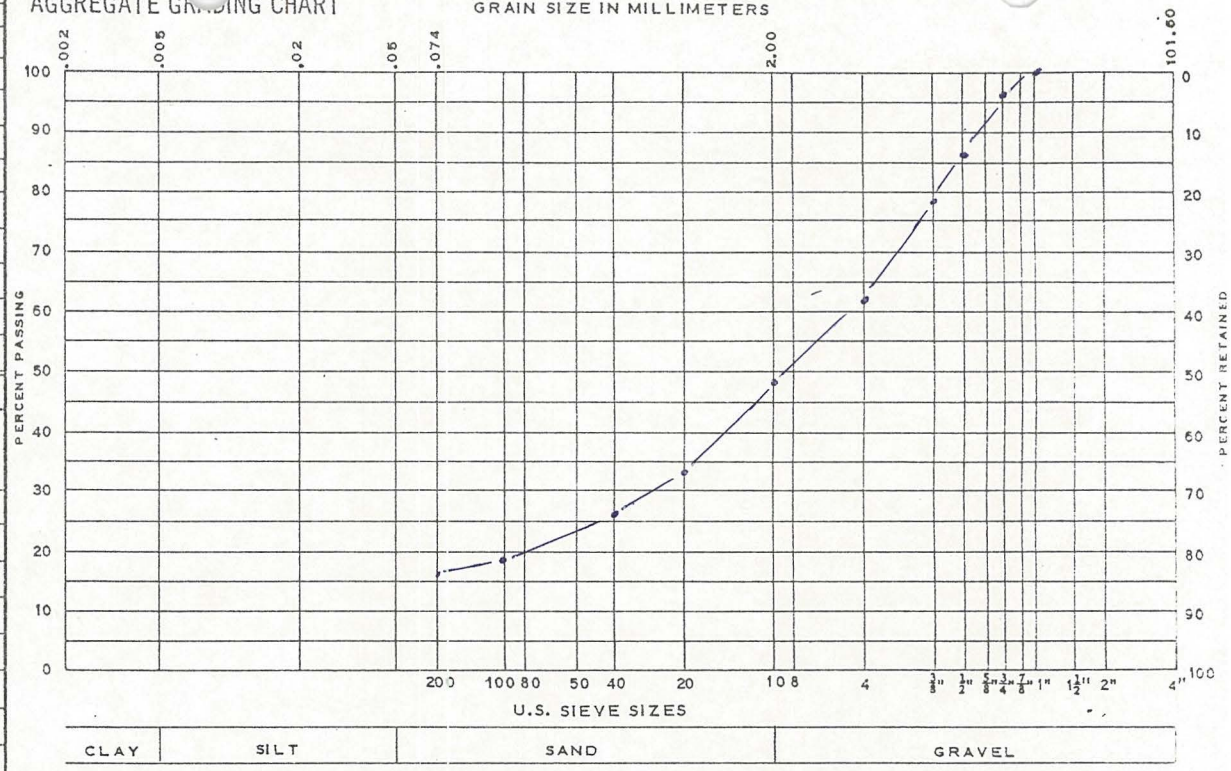
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	1		47.3	#10					
96.3	3/4		33.8	#20					
85.3	1/2		25.9	#40					
78.4	3/8		19.0	#80					
62.4	#4		16.8	#200					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a SC CLAYEY SAND	23.9	20.4	3.5							

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 340+00

HOLE No. ____ DEPTH 3'-8'

SAMPLE TYPE ____ DATE SAMPLED JULY/69

FIELD SAMPLE No. ____ LAB SAMPLE No. 304

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ____ DATE ____

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ____ DATE ____

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

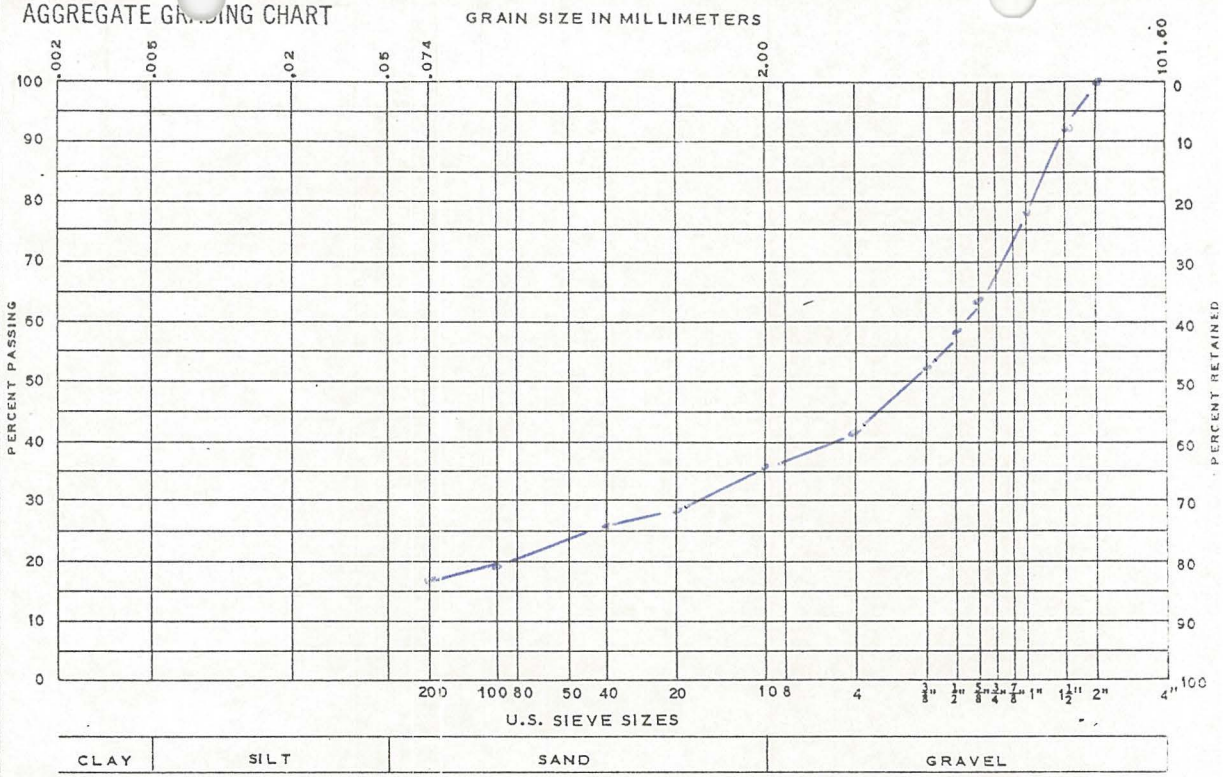
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	2		35.2	#10					
92.9	1 1/2		29.3	#20					
78.9	1		25.2	#40					
64.3	3/4		19.5	#100					
57.7	1/2		16.5	#200					
52.2	3/8								
42.5	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b	21.5	20.0	1.5							
		GM										
		SILTY GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA 335+00

HOLE No. ..... DEPTH 0 - 8'

SAMPLE TYPE ..... DATE SAMPLED JULY/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 305

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

SIEVE ANALYSIS

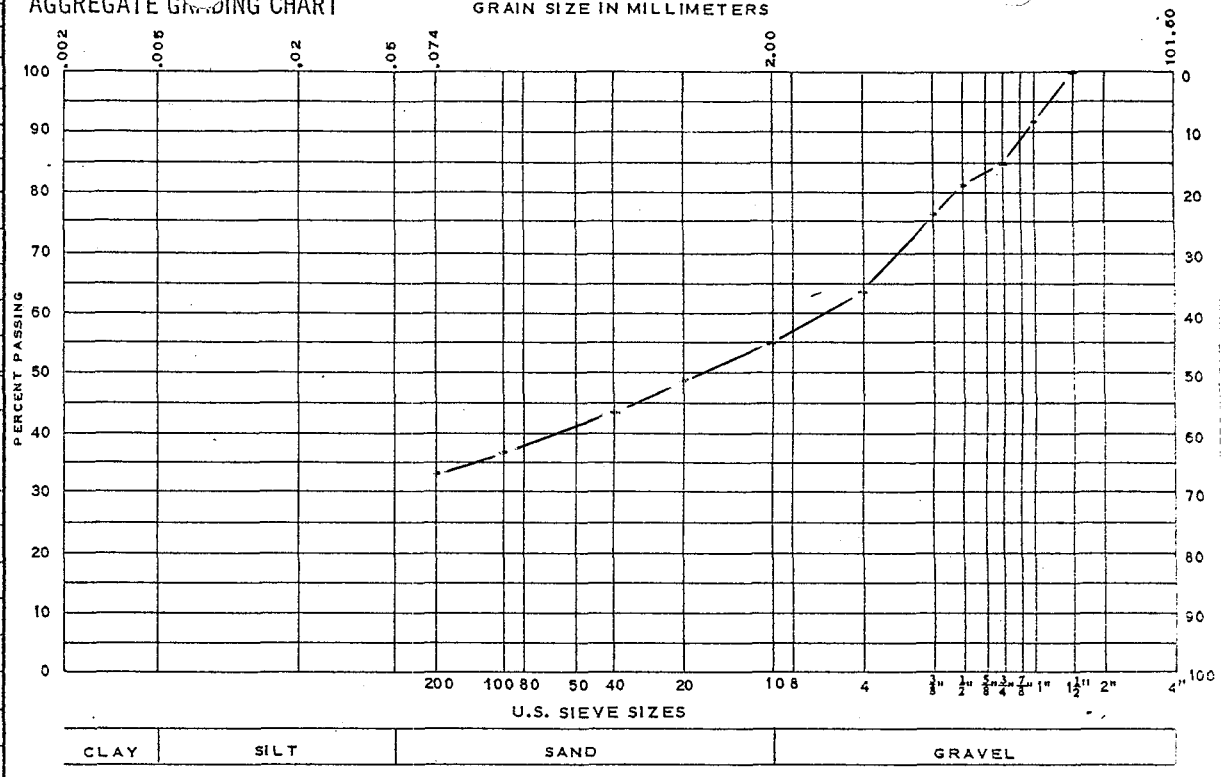
% FINER BY WEIGHT	SIEVE SAMPLE NUMBER		% FINER	SIEVE
100.0	1½"		55.2	#10
91.7	1"		48.9	#20
85.0	¾"		44.1	#40
80.6	½"		36.1	#100
75.7	⅜"		32.9	#200
64.2	#4			

% + 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-2-4	25.2	19.8	5.4							
		SM-SC										
		SILTY SAND-CLAY MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT Dempster Highway Construction

LOCATION STA 325+00

HOLE No. ..... DEPTH 2'-10'

SAMPLE TYPE ..... DATE SAMPLED July/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 306

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

2/4/70
DATE

EA

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

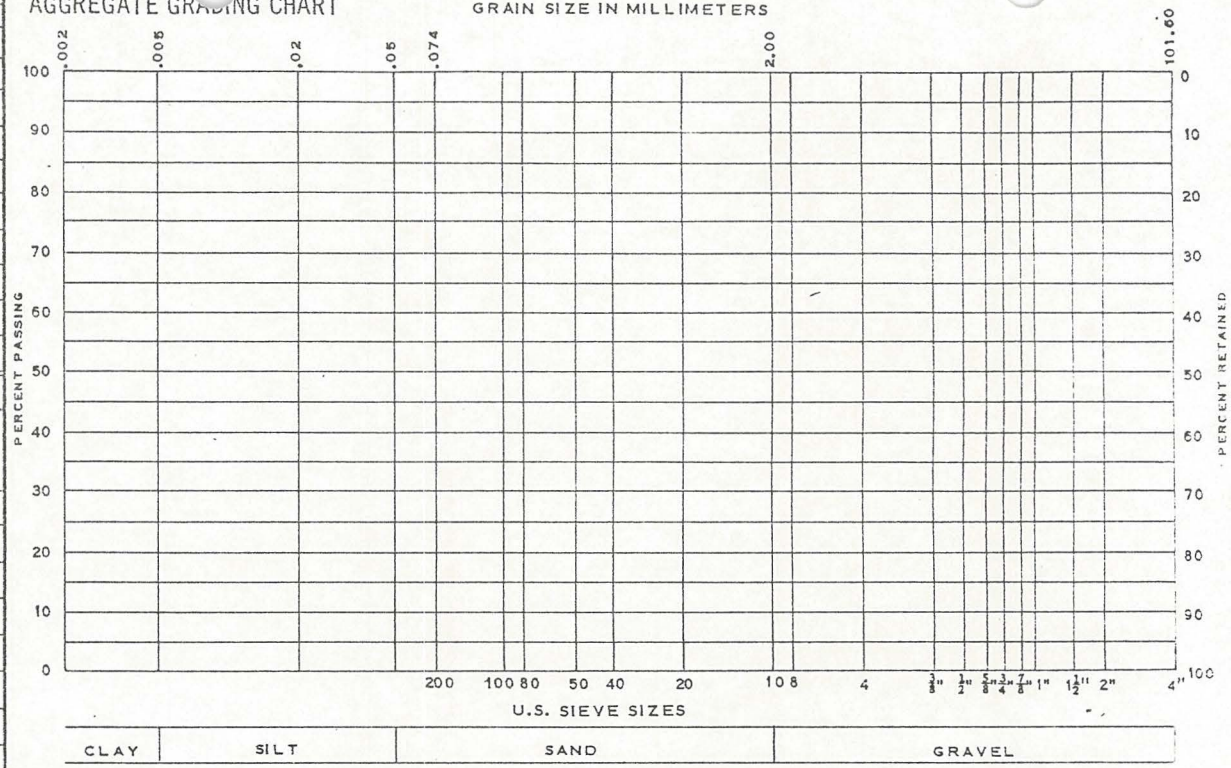
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
		>75% PASSING #200							
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	27.0	20.2	6.8							
		CL-ML										
		LO PLASTIC SILT-CLAY MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STN: 320+00

HOLE No. ..... DEPTH 1'-8'

SAMPLE TYPE ..... DATE SAMPLED JULY 4/68

FIELD SAMPLE No. ..... LAB SAMPLE No. 307

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

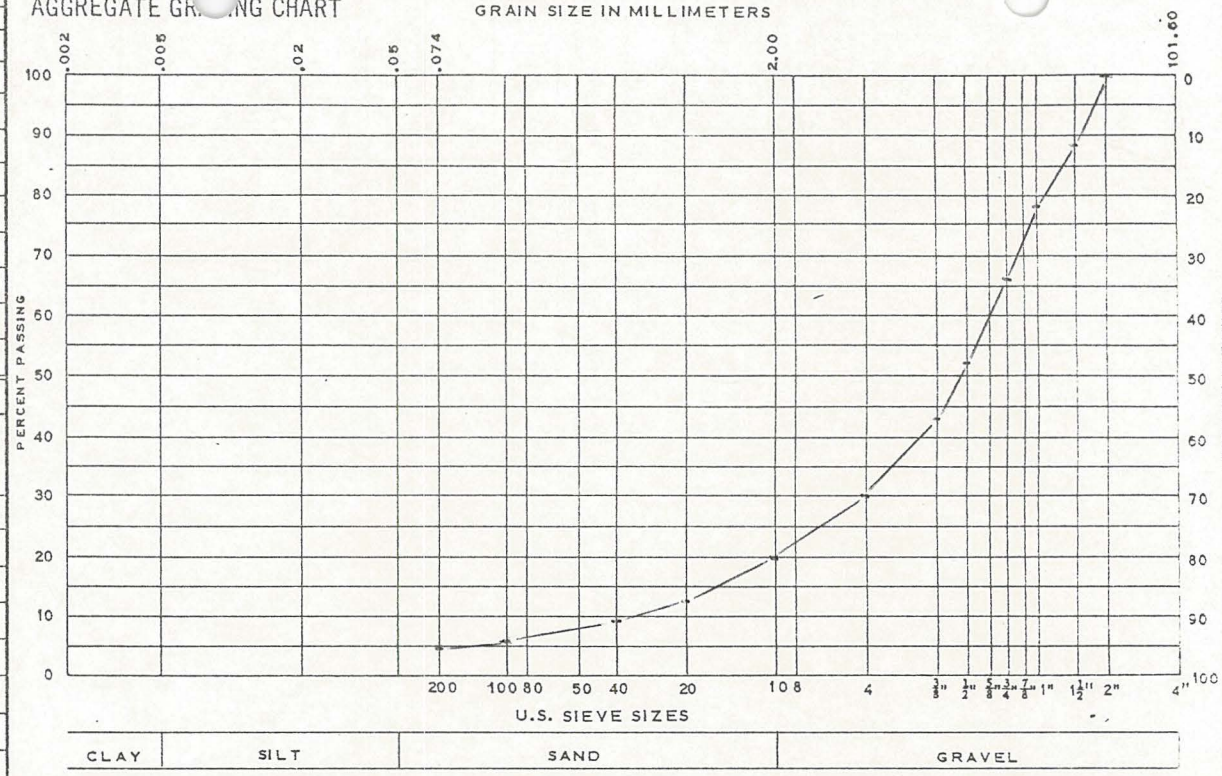
SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	2"		19.9	#10					
87.9	1½"		12.4	#20					
78.3	1"		8.7	#40					
66.2	¾"		5.5	#100					
52.1	½"		4.6	#200					
43.1	⅜"								
30.0	#4								
NOTE: INSUFFICIENT MATERIAL FOR FURTHER TESTING.									
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a										
		GW										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 295+00 ℄

HOLE No. ____ DEPTH: 0-7'

SAMPLE TYPE ____ DATE SAMPLED: JULY/69

FIELD SAMPLE No. ____ LAB SAMPLE No.: 308

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/4/70
DATE SX

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

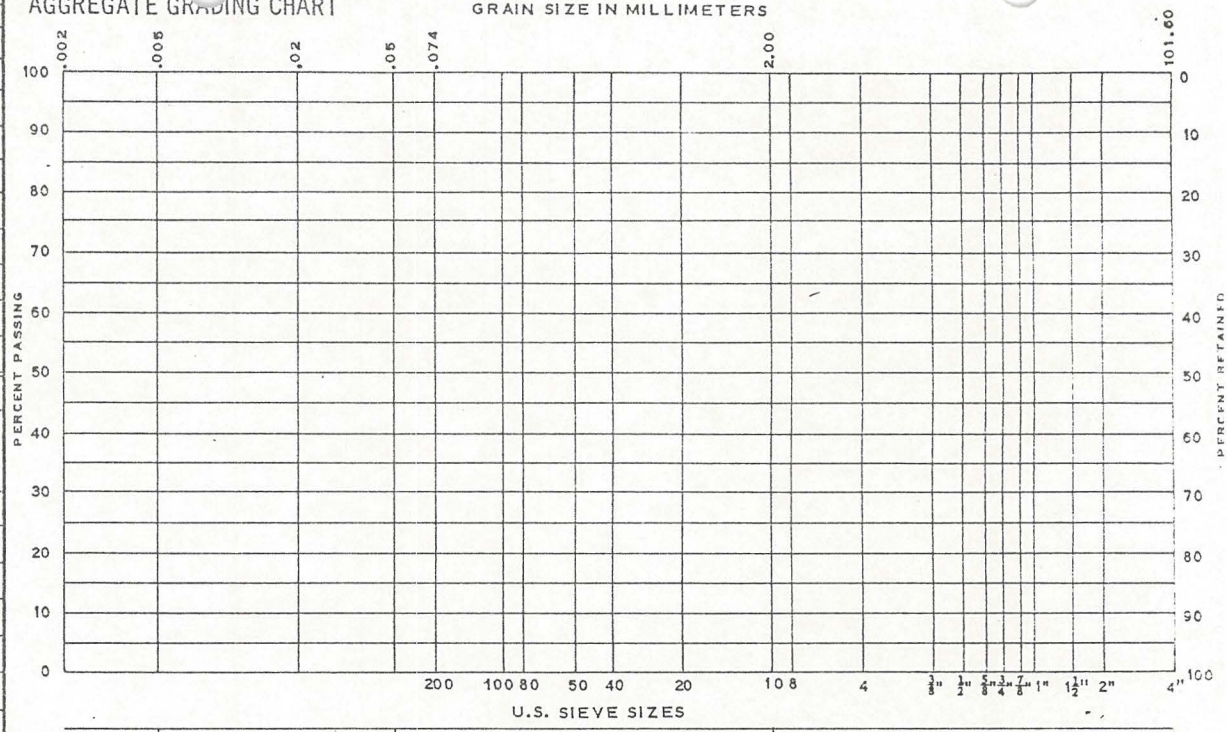
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
		> 75% PASSING #200.							
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4 32.7 23.0 9.7										
		CL										
		Lo PLASTIC INORGANIC CLAY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STN. 275+00

HOLE No. ..... DEPTH 1½-3' & 3'-8'

SAMPLE TYPE ..... DATE SAMPLED JULY/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 309 & 310

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ____ DATE ____

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ____ DATE ____

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

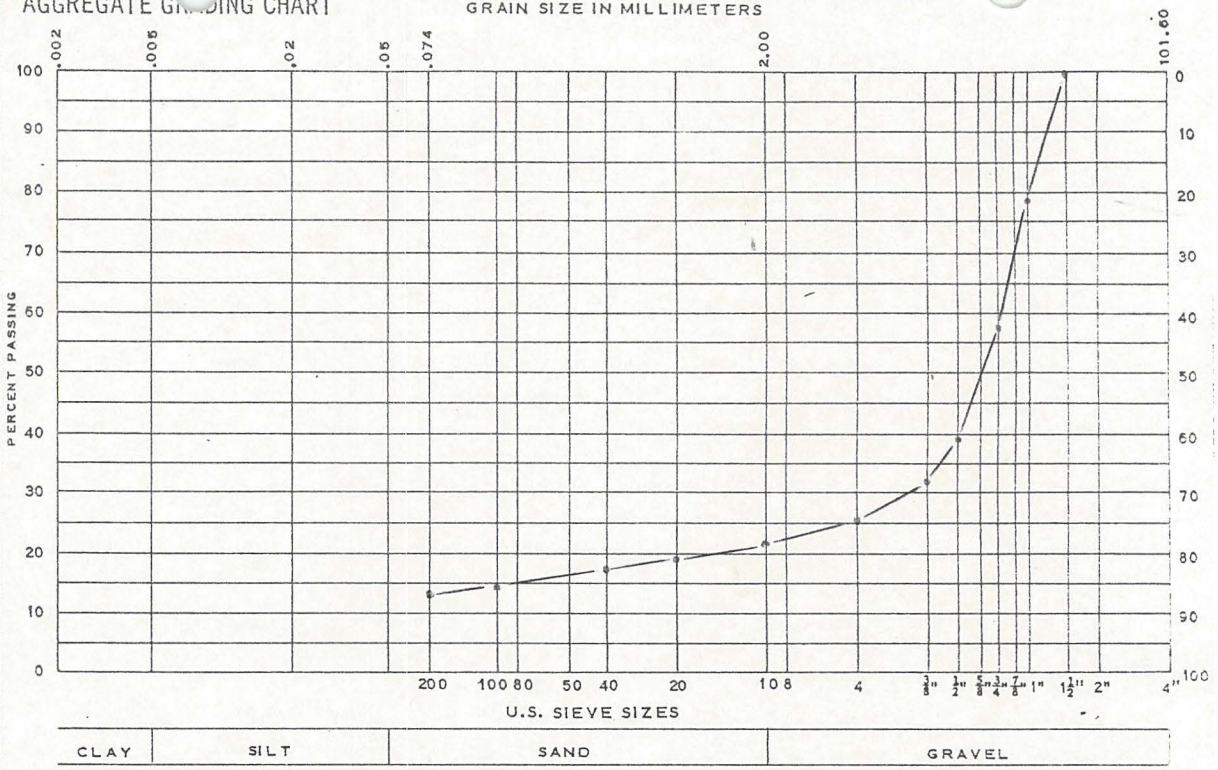
% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	1½"		21.7	#10					
78.8	1"		19.1	#20					
57.5	¾"		17.0	#40					
39.3	½"		14.5	#100					
31.6	⅜"		13.4	#200					
25.4	#4								

NOTE: INSUFFICIENT MATERIAL FOR FURTHER TESTING.

% + 4"														
SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a										
		GP										
		POORLY-GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 265+00

HOLE No.: DEPTH: 1'-6'

SAMPLE TYPE: DATE SAMPLED: JULY 1/69

FIELD SAMPLE No.: LAB SAMPLE No.: 311

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER — DATE: 6/7/70

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER — DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

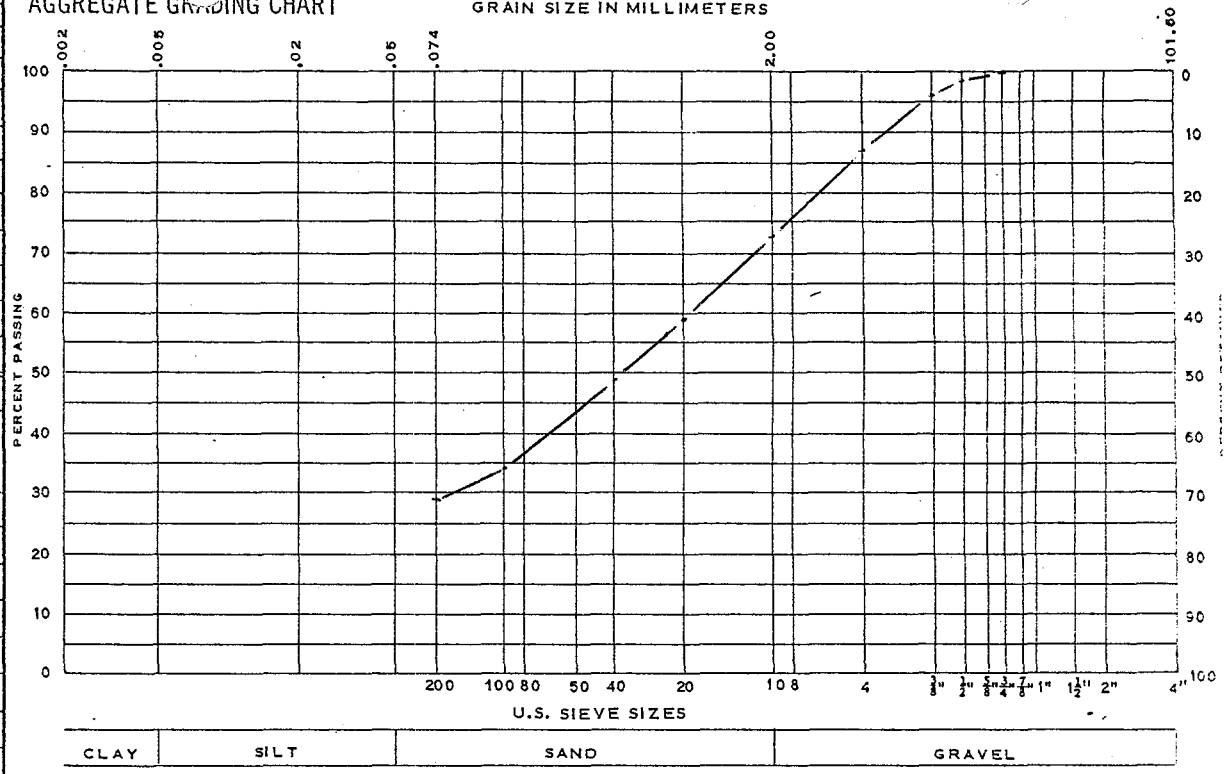
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER									
	SIEVE	% FINER	SIEVE							
100.0	3/4"	73.1	#10							
97.7	1/2"	59.2	#20							
96.2	3/8"	48.8	#40							
86.7	#4	34.5	#100							
		29.3	#200							
% + 4"										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			23.2	21.3	1.9							
		A-2-4										
		SM										
		SILTY - SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT Demster Highway Construction

LOCATION STA. 260+00 ℄

HOLE No. ____ DEPTH 1'-5'

SAMPLE TYPE ____ DATE SAMPLED July/69

FIELD SAMPLE No. ____ LAB SAMPLE No. 312

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

2/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

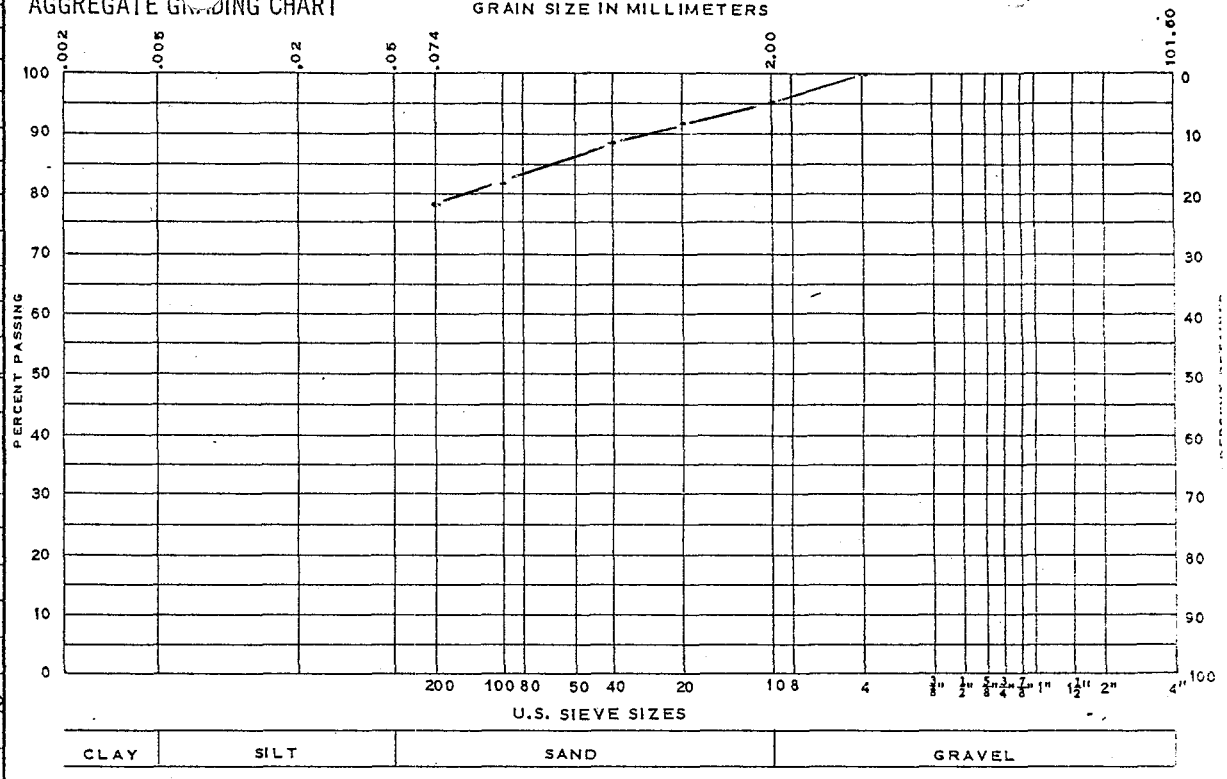
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER
	SIEVE
100.0	#4
95.3	#10
91.4	#20
88.3	#40
82.2	#100
78.2	#200
% + 4"	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4 (9) 62 25 24										
		ML										
		INORGANIC SILT AND FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA 250+00

HOLE No. ____ DEPTH: 2'-8'

SAMPLE TYPE ____ DATE SAMPLED: JULY/69

FIELD SAMPLE No. ____ LAB SAMPLE No.: 313

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

2/9/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

JD 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

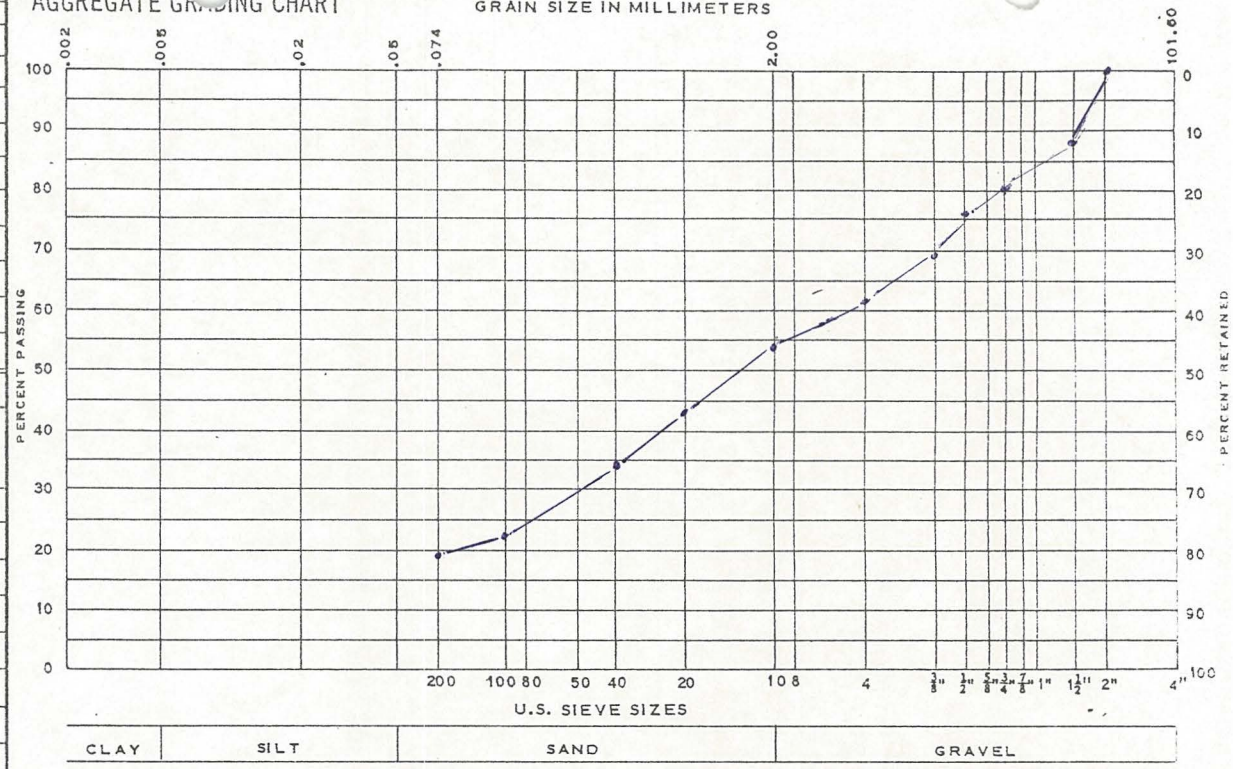
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER									
	SIEVE		% FINER	SIEVE						
100.0	2		54.1	#10						
87.3	1 1/2		42.9	#30						
	1		34.6	#40						
80.5	3/4		23.5	#100						
75.2	1/2		19.2	#200						
69.5	3/8									
62.6	#4									
% + 4"										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b			0.0							
		SM										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA 230 +00

HOLE No.: DEPTH: 5'-10'

SAMPLE TYPE: DATE SAMPLED: JULY/69

FIELD SAMPLE No.: LAB SAMPLE No.: 314

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER — DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER — DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

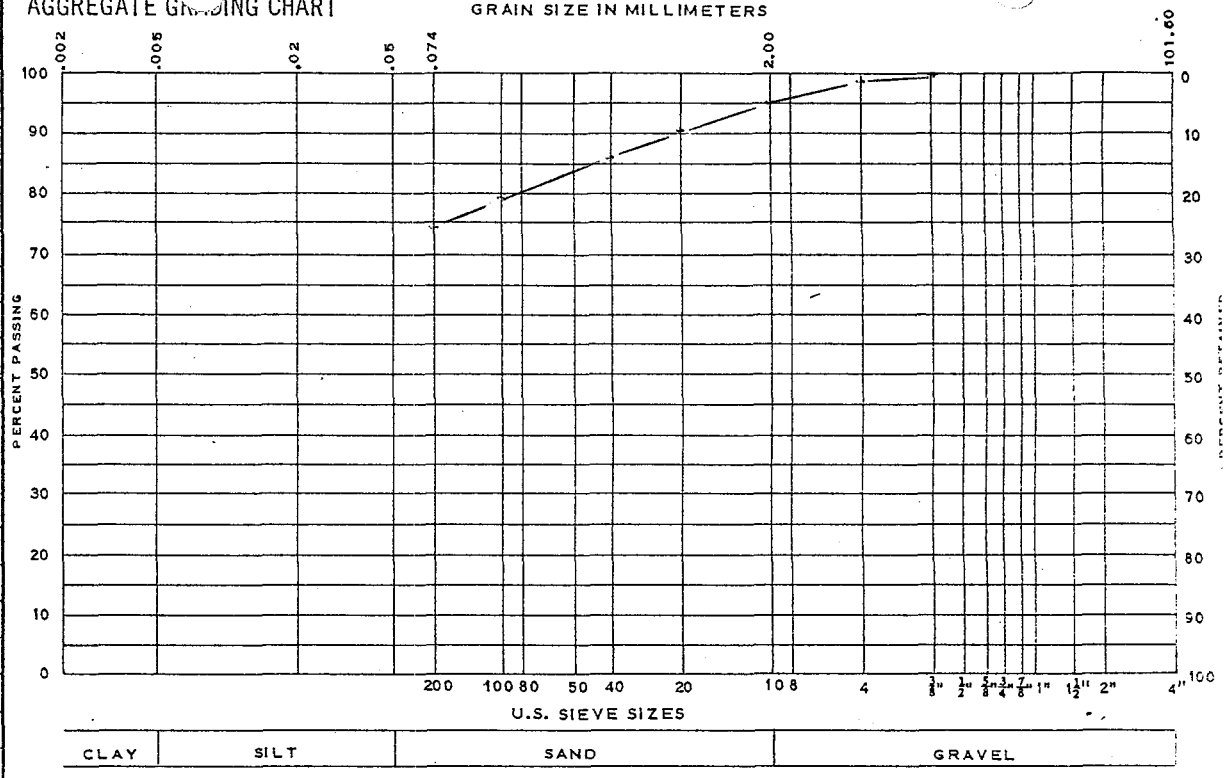
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE								
100.0	~~3/8~~								
98.1	#4								
95.2	#10								
90.2	#20								
86.1	#40								
78.6	#100								
74.2	#200								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4 35.2 ~~27.0~~ 8.2										
		ML										
		INORGANIC SILT AND FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA. 170+00

HOLE No. ..... DEPTH 3'-8'

SAMPLE TYPE ..... DATE SAMPLED JULY 1/69

FIELD SAMPLE No. ..... LAB SAMPLE No. 315

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

3/9/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

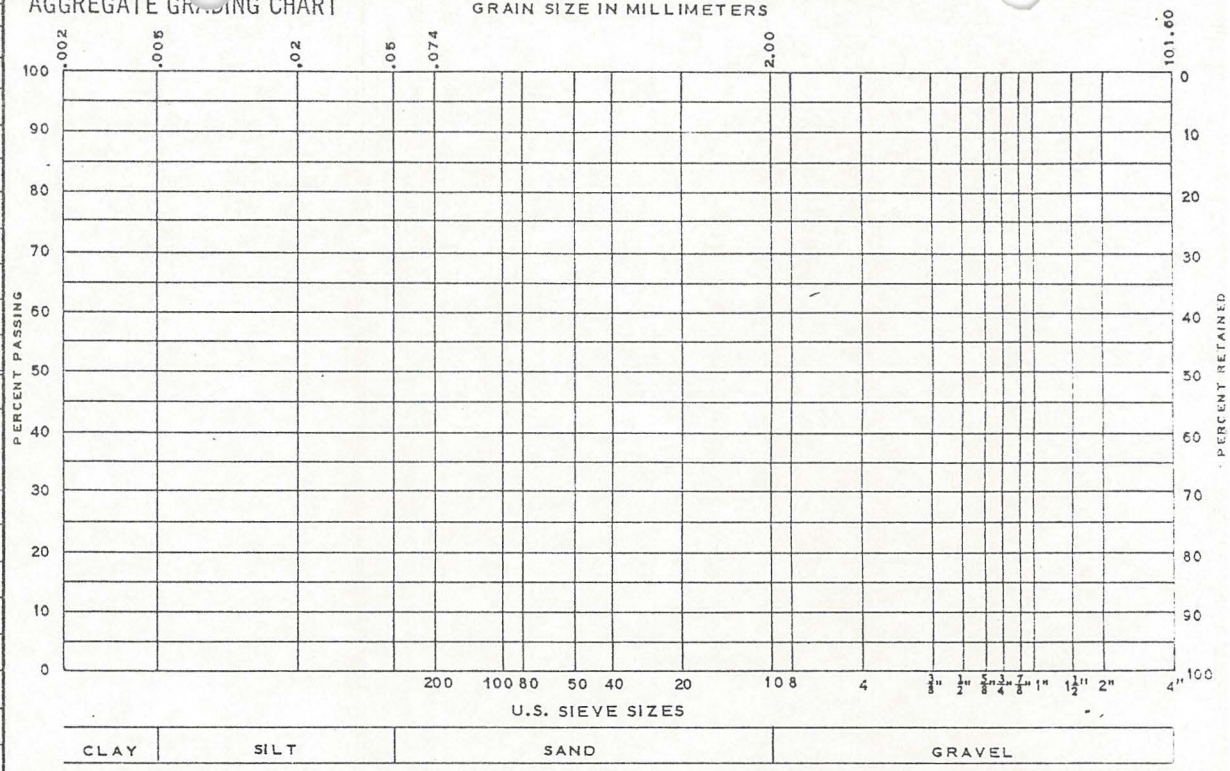
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		Pt. PEAT, HIGHLY ORGANIC SOIL.										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 160+00

HOLE No.: DEPTH: 1-9'

SAMPLE TYPE: DATE SAMPLED: JULY '69

FIELD SAMPLE No.: LAB SAMPLE No.: 316

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

6/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

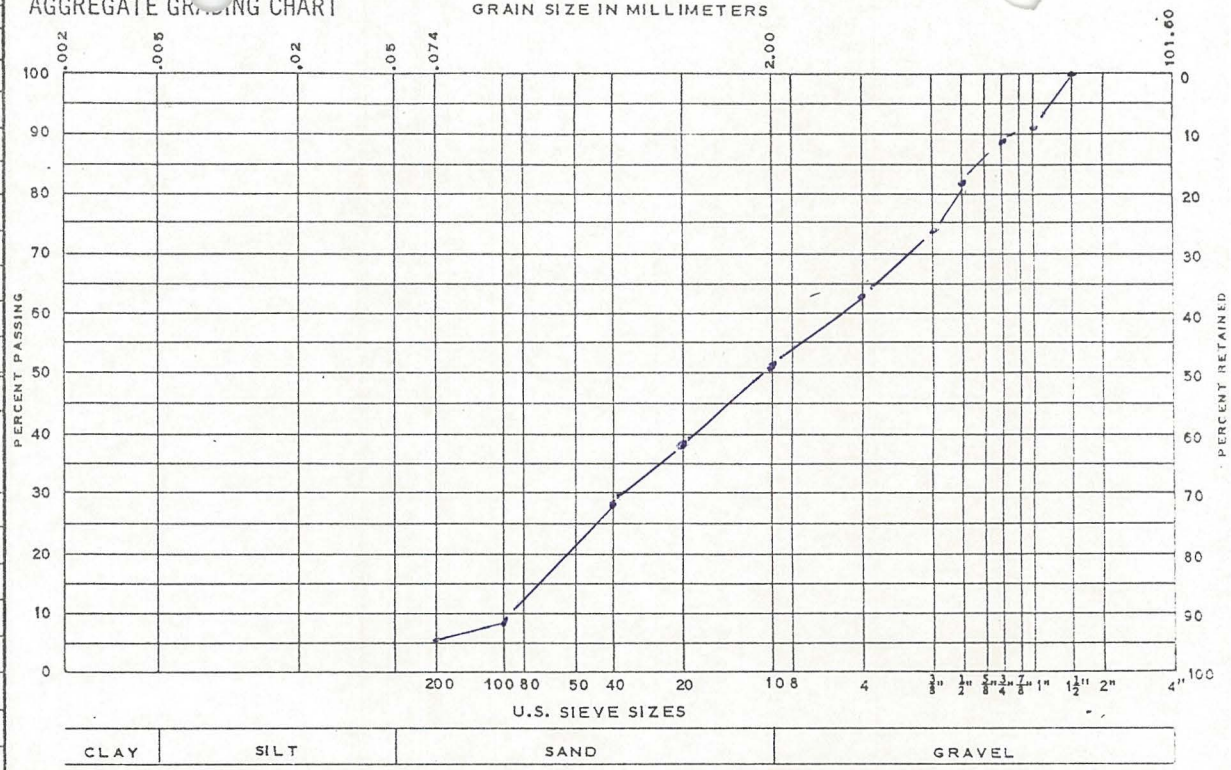
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE		% FINER	SIEVE					
100.0	1 1/2		50.2	#10					
91.0	1		38.0	#20					
89.6	3/4		26.3	#40					
81.8	1/2		8.1	#100					
79.5	3/8		5.1	#200					
63.5	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		SW-SM										
		WELL GRADED SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY CONSTRUCTION

LOCATION STA: 150 + 00

HOLE No. ..... DEPTH 1'-10'

SAMPLE TYPE ..... DATE SAMPLED JULY 16?

FIELD SAMPLE No. ..... LAB SAMPLE No. 317

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

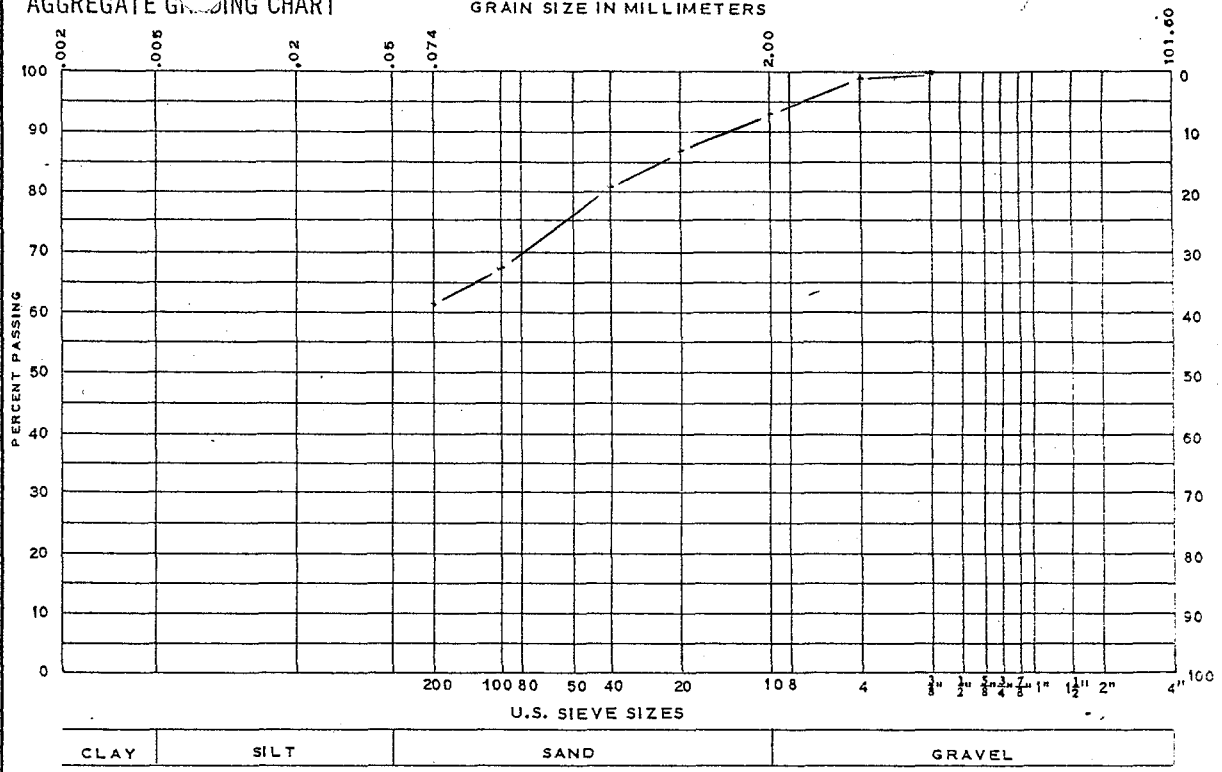
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	SIEVE								
100.0	3/8								
99.0	#4								
93.6	#10								
82.3	#20								
80.9	#40								
67.5	#100								
61.1	#200								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-4	21.9	19.1	5.8							
		ML										
		INORGANIC SILT AND FINE SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY CONSTRUCTION

LOCATION: STA. 145+00

HOLE No. ____ DEPTH: 3'-10"

SAMPLE TYPE ____ DATE SAMPLED: JULY/69

FIELD SAMPLE No. ____ LAB SAMPLE No.: 318

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

3/4/70
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

ID 673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

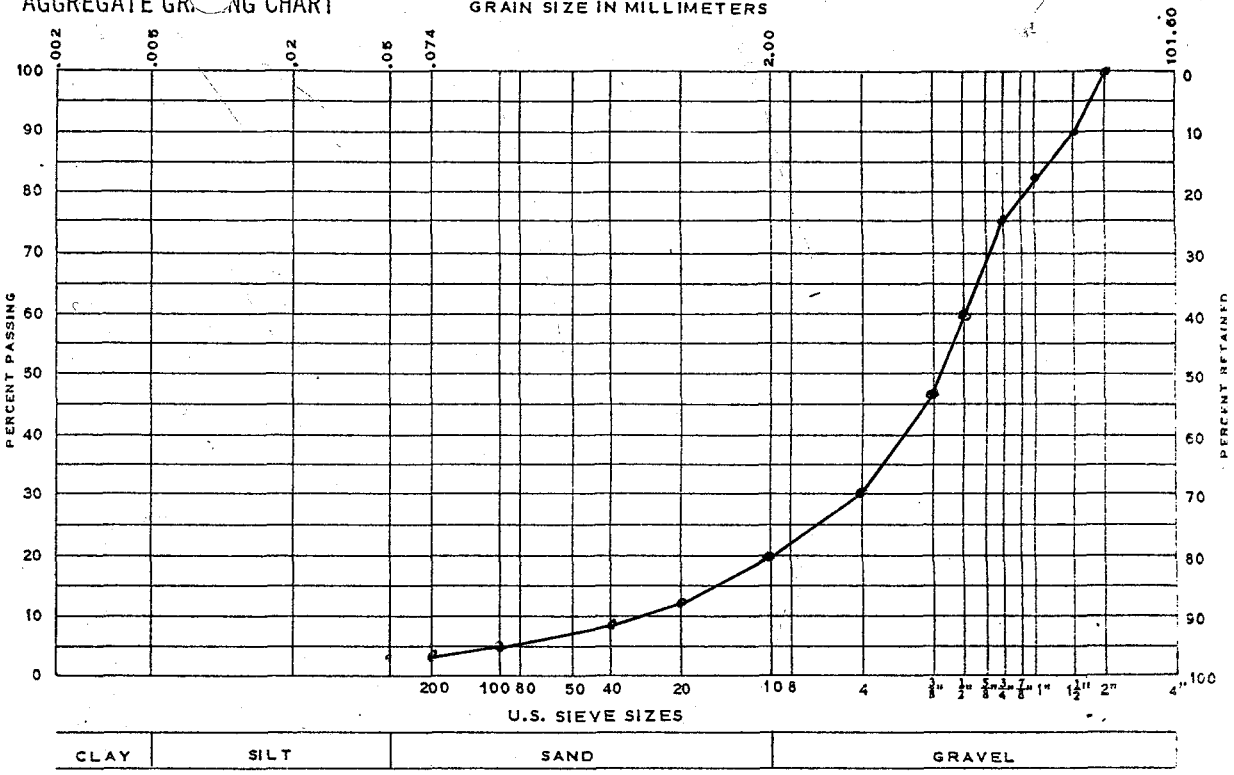
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER %			%					
2"	100		#4	30.7					
1½"	89.7		#10	20.2					
1 "	82.7		#20	12.7					
¾"	75.2		#40	9.2					
½"	60.6		#100	4.7					
⅜"	46.8		#200	3.5					
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.W.										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 100

HOLE No. ..... DEPTH 5' to 10'

SAMPLE TYPE ..... DATE SAMPLED JUNE 69

FIELD SAMPLE No. 295 LAB SAMPLE No. 1005

D. P. W. WHITEHORSE - SOILS LAB D. M.

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

DEMPSTER HIGHWAY

AGGREGATE DEPOSIT REPORTS

STA. 5625+00 - 5840+00

MILE · 60 - 64·5

AGGREGATE DEPOSIT REPORT (Cont'd)

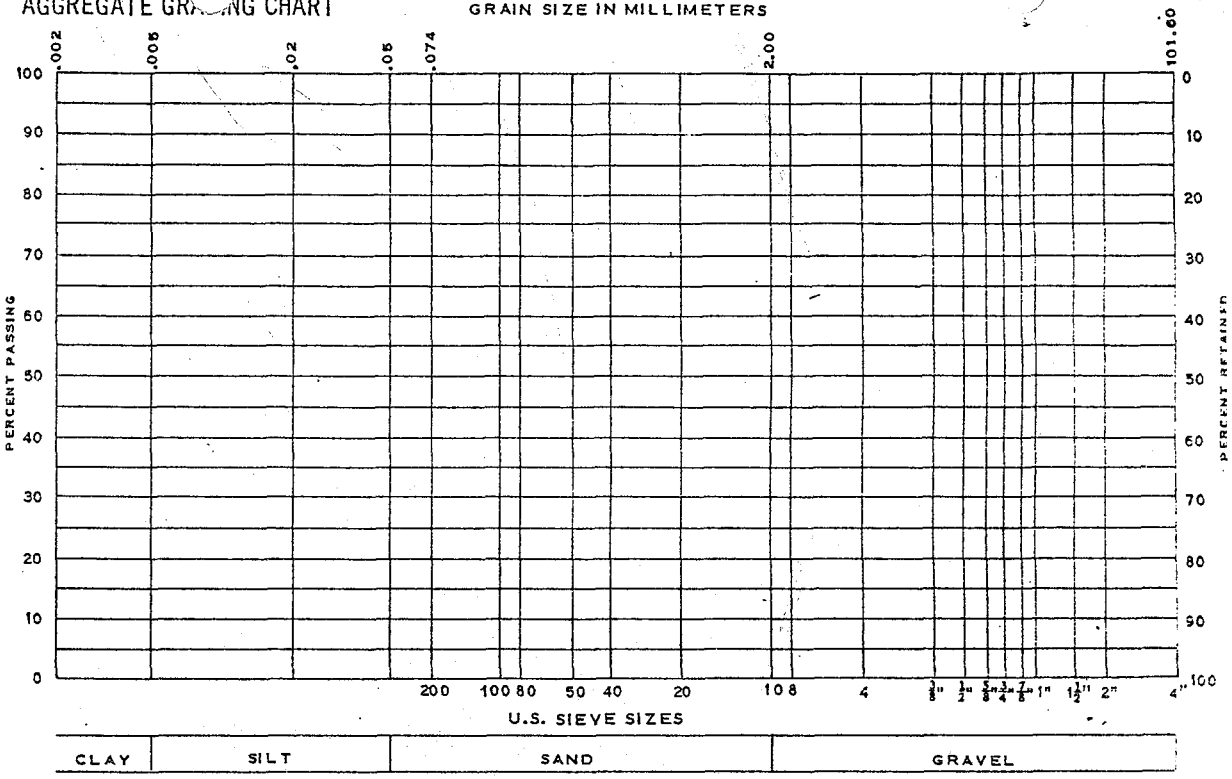
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER							
% + 4"								

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 55505

HOLE No. DEPTH 5'-1 to 10'

SAMPLE TYPE DATE SAMPLED JULY 69

FIELD SAMPLE No. 296 LAB SAMPLE No. 1006

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

30-3-71 DATE

MATERIALS ENGINEER'S REMARKS

SAMPLE NOT FOUND WITH GROUP - MAY HAVE BEEN LOST BETWEEN 1969 AND 1971.

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

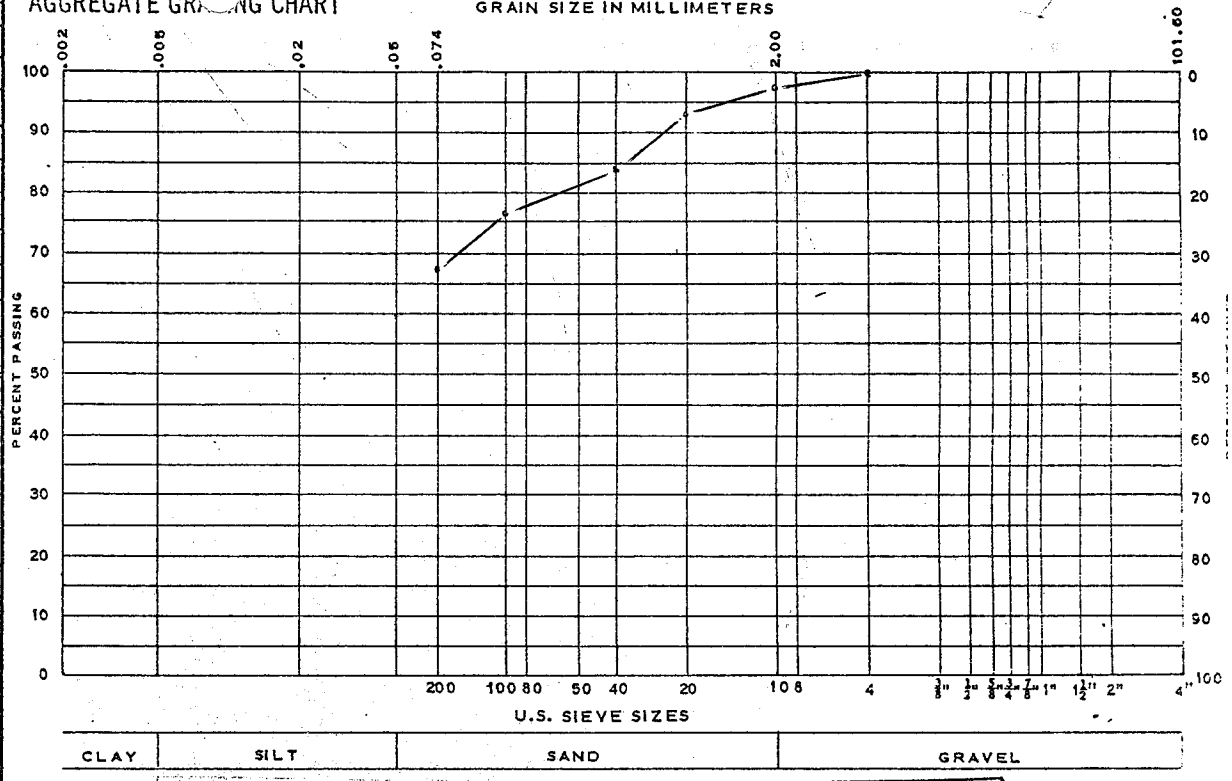
SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	#4								
97.1	10								
92.8	20								
84.9	40								
75.9	100								
67.0	200								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			30.1	27.4	2.7							
		A-4										
		M.L.										
		SANDY SILT										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT

LOCATION DEMPSTER HI-WAY STA. 5625

HOLE No. DEPTH 4'-10'

SAMPLE TYPE DATE SAMPLED JULY '69

FIELD SAMPLE No. 797 LAB SAMPLE No. 1007

D. P. W. WHITEHORSE · SOILS LAB

TESTING ENGINEER 25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

SHEET OF

SIEVE ANALYSIS

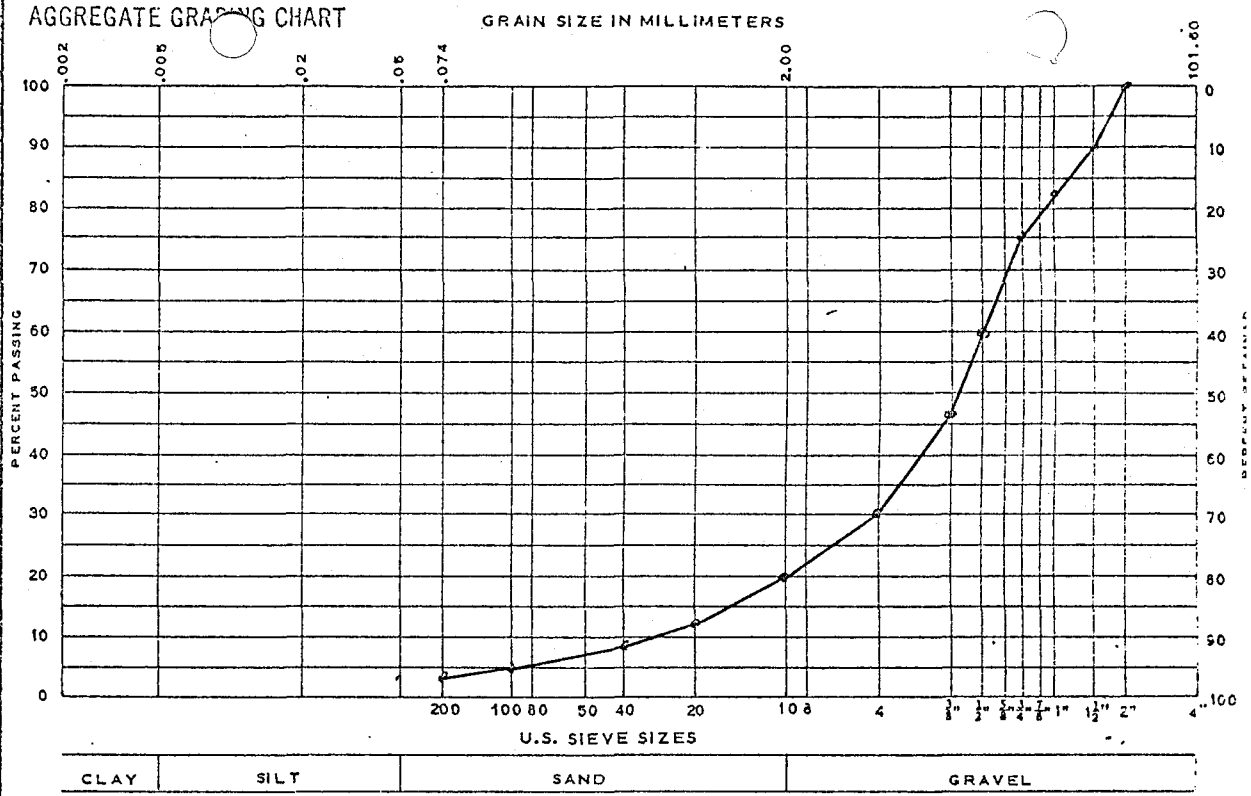
SAMPLE NUMBER

FINER BY WEIGHT	%			%
3"	100		#4	30.7
1½"	99.7		#10	20.2
1"	92.7		#20	12.7
¾"	75.2		#40	9.2
½"	60.6		#100	4.7
⅜"	46.8		#200	3.5
+ 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.W.										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 5640

HOLE No. DEPTH 4' to 10'

SAMPLE TYPE DATE SAMPLED June 69

FIELD SAMPLE No. 298 LAB SAMPLE No. 1008

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER — DATE 29-3-71

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER — DATE

673 A

AGGREGATE DEPOSIT REPORT (Cont'd)

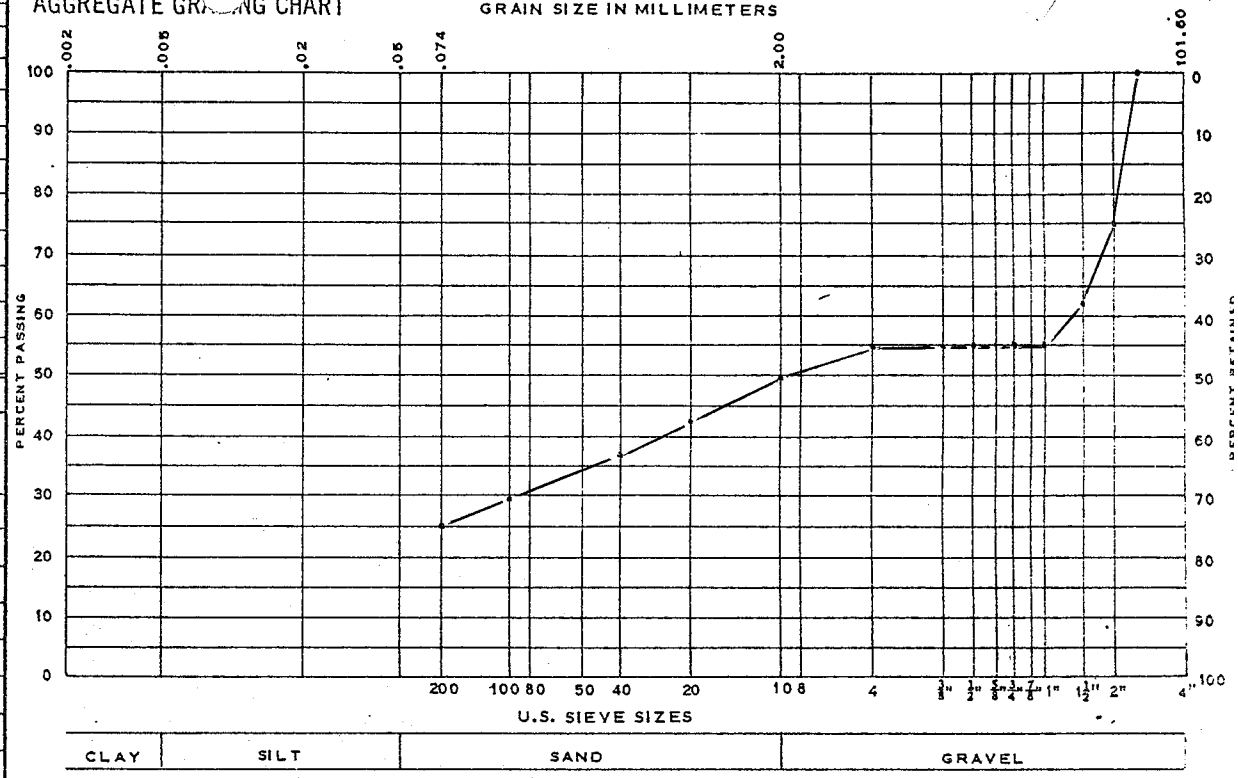
SHEET 05

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	3"		49.8	#10					
75.0	2		42.3	20					
61.8	1½		36.5	40					
55.0	1		29.4	100					
"	¾		25.1	200					
"	½								
"	⅜								
"	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			21.8	18.4	3.4							
		A-1-b										
		GP										
		POORLY GRADED										
		GRAVEL-SAND MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA. 5650

HOLE No. ..... DEPTH 41-8'

SAMPLE TYPE ..... DATE SAMPLED July '69

FIELD SAMPLE No. Z99 ..... LAB SAMPLE No. 1009

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE 25-3-71

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS / SAMPLE NUMBER								
	98.5% PASSING #200 SIEVE								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			55.4	39.5			15.9					
		A-7-5										
		~~O.H.~~										
		M. H										
		CLAYEY SILT OF MED. TO HIGH PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS

.002 .005 .02 .05 .074 2.00 101.60

PERCENT PASSING: 100 90 80 70 60 50 40 30 20 10 0

PERCENT RETAINED: 0 10 20 30 40 50 60 70 80 90 100

200 100 80 50 40 20 10 8 4 3/8" 1/2" 5/8" 3/4" 7/8" 1" 1 1/2" 2" 4"

U.S. SIEVE SIZES

CLAY | SILT | SAND | GRAVEL

TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 56+55

HOLE No. ..... DEPTH 3' to 10'

SAMPLE TYPE ..... DATE SAMPLED JULY 69

FIELD SAMPLE No. 300 LAB SAMPLE No. 1010

D. P. W. WHITEHORSE - SOILS LAB

26-3-71

TESTING ENGINEER ..... DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

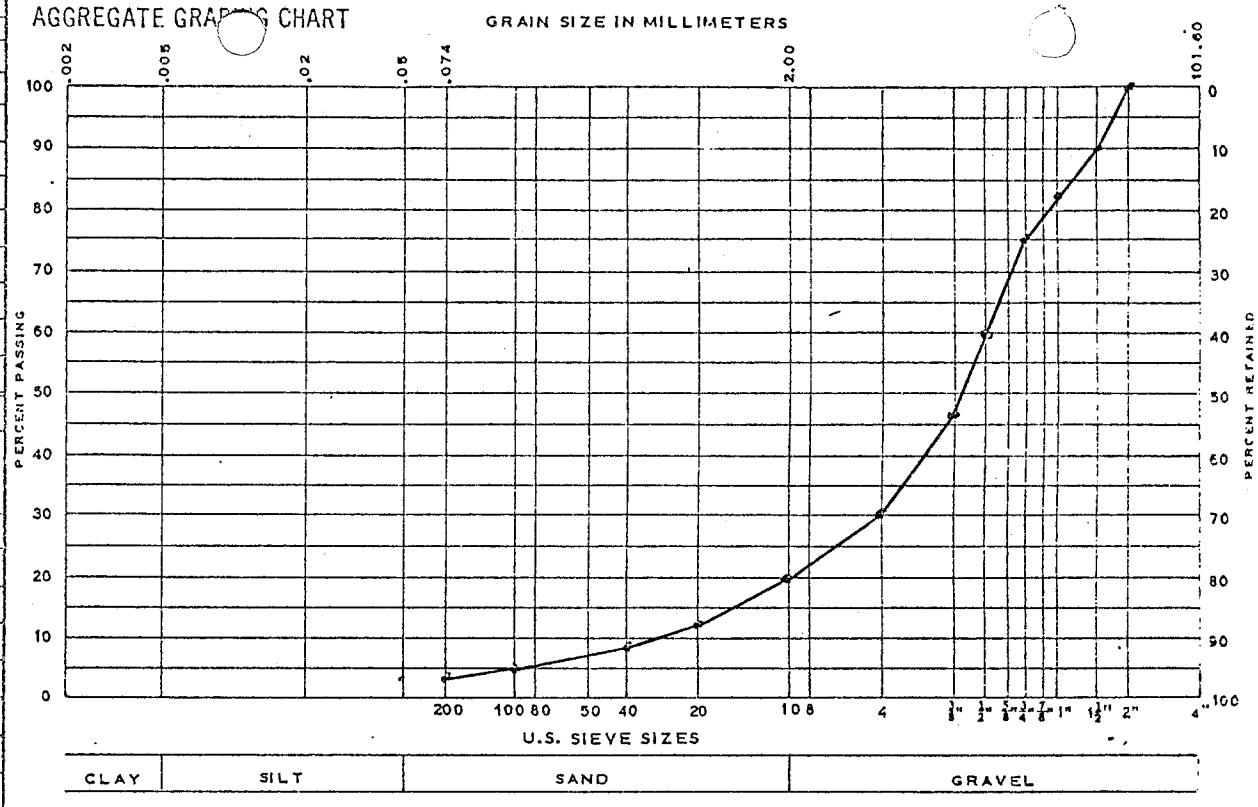
SHEET OF

INER BY IGHT	SIEVE ANALYSIS SAMPLE NUMBER %			%					
"	100		# 4	30.7					
½"	89.7		# 10	20.2					
"	82.7		# 20	12.7					
"	75.2		# 40	9.2					
"	60.6		# 100	4.7					
"	46.8		# 200	3.5					
+ 4"									

PLE O.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSHG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			0.0							
		G.W.										
		WELL GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 56555

HOLE No. DEPTH 3' to 10'

SAMPLE TYPE DATE SAMPLED JUNE 69

FIELD SAMPLE No. 300 LAB SAMPLE No. 1011

D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

573 A

AGGREGATE DEPOSIT REPORT (Cont'd)

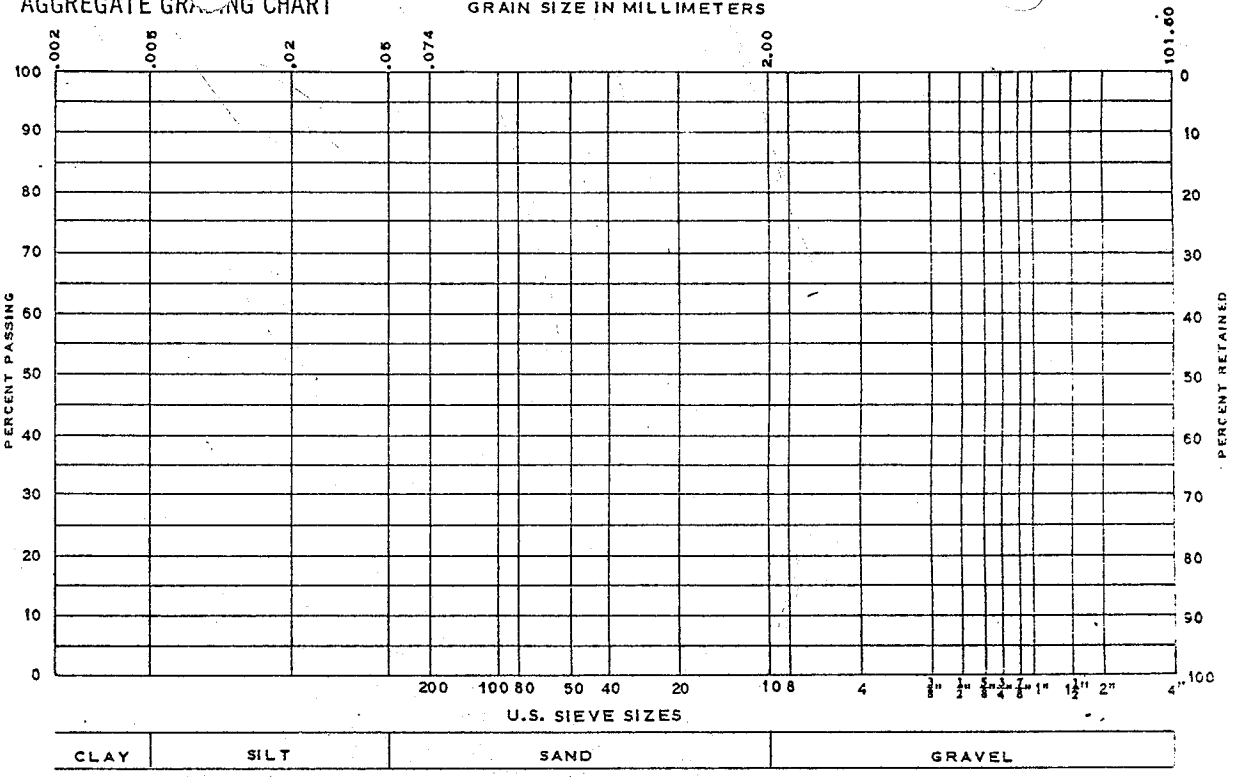
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	78.1 % PASSING #200 SIEVE								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
					0.0							
		A-4										
		M.L.										
		SILT - FINE SAND MIXTURE										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 5700

HOLE No. ..... DEPTH 3' to 10'

SAMPLE TYPE ..... DATE SAMPLED JUNE 69

FIELD SAMPLE No. 303 LAB SAMPLE No. 1012

D. P. W. WHITEHORSE - SOILS LAB J.M.

29-3-71

TESTING ENGINEER — DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER — DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

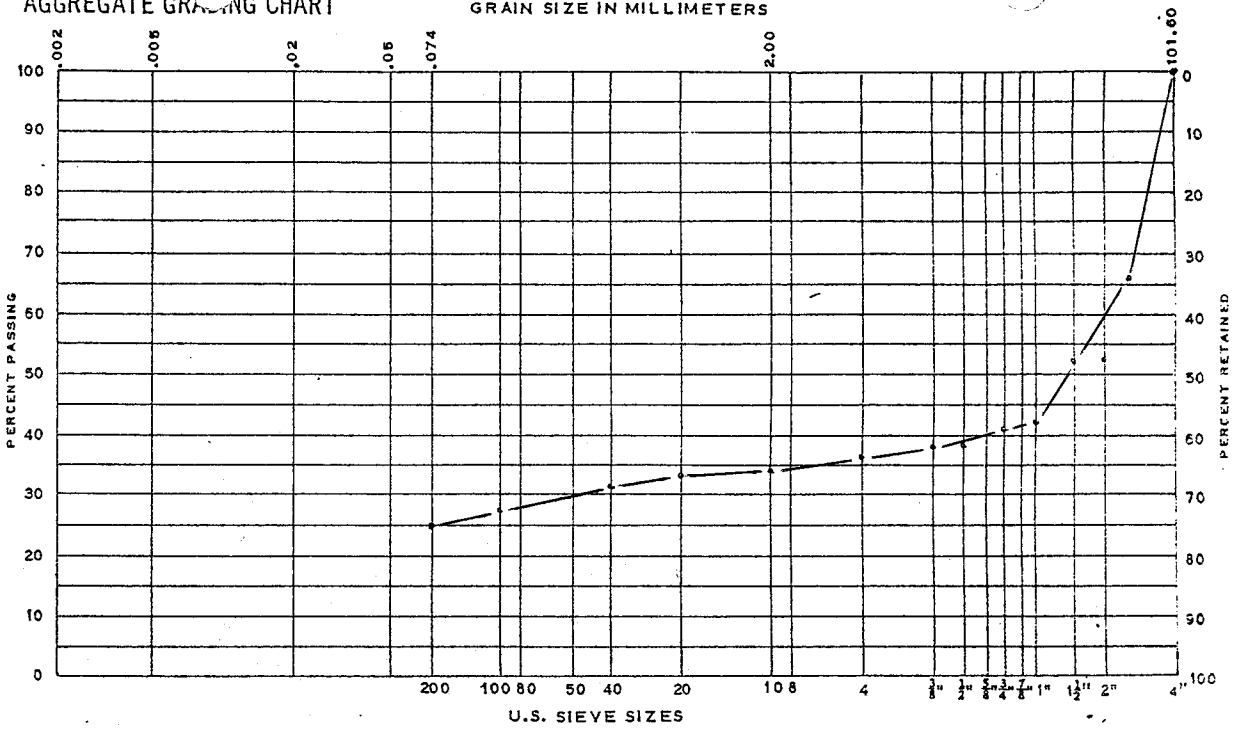
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	4"		34.6	#10					
65.5	3		32.9	20					
52.4	2		31.1	40					
52.4	1½		27.1	100					
42.1	1		24.8	200					
40.7	¾								
38.6	½								
38.0	⅜								
36.2	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	DSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b G.P.			0.0							
		POOR to FAIR GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY.

LOCATION STA. 5705

HOLE No. ..... DEPTH 4' to 10'

SAMPLE TYPE ..... DATE SAMPLED July '69

FIELD SAMPLE No. 304 LAB SAMPLE No. 1013 ~~1019~~

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER 25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

1013 - 4'-10' - STA. 5705 SAMPLE # 304

~~1019 - 4'-8' " 5780 " # 309~~

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

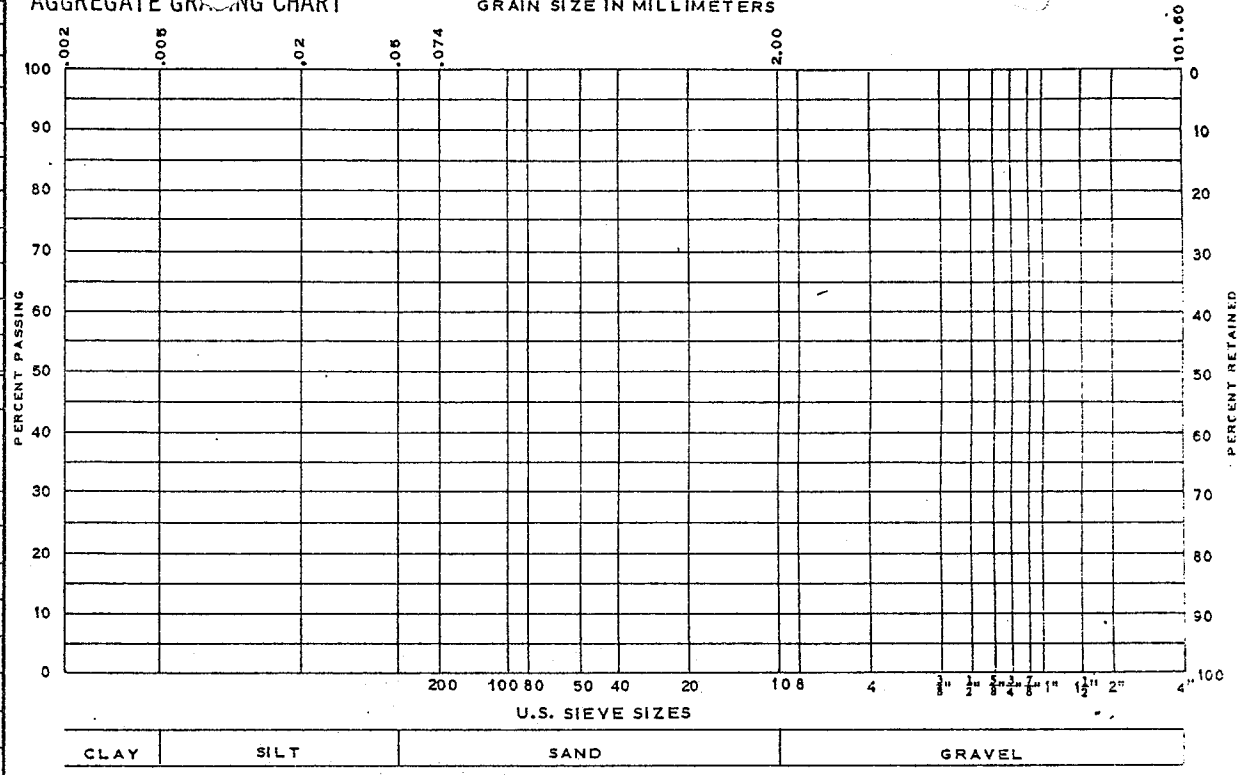
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
	ORGANIC MATERIAL								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
					0.0							
		ORGANIC										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA. 5720

HOLE No. DEPTH 4'-10'

SAMPLE TYPE DATE SAMPLED JULY '69

FIELD SAMPLE No. 304 A LAB SAMPLE No. 1014

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER 25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

SHEET

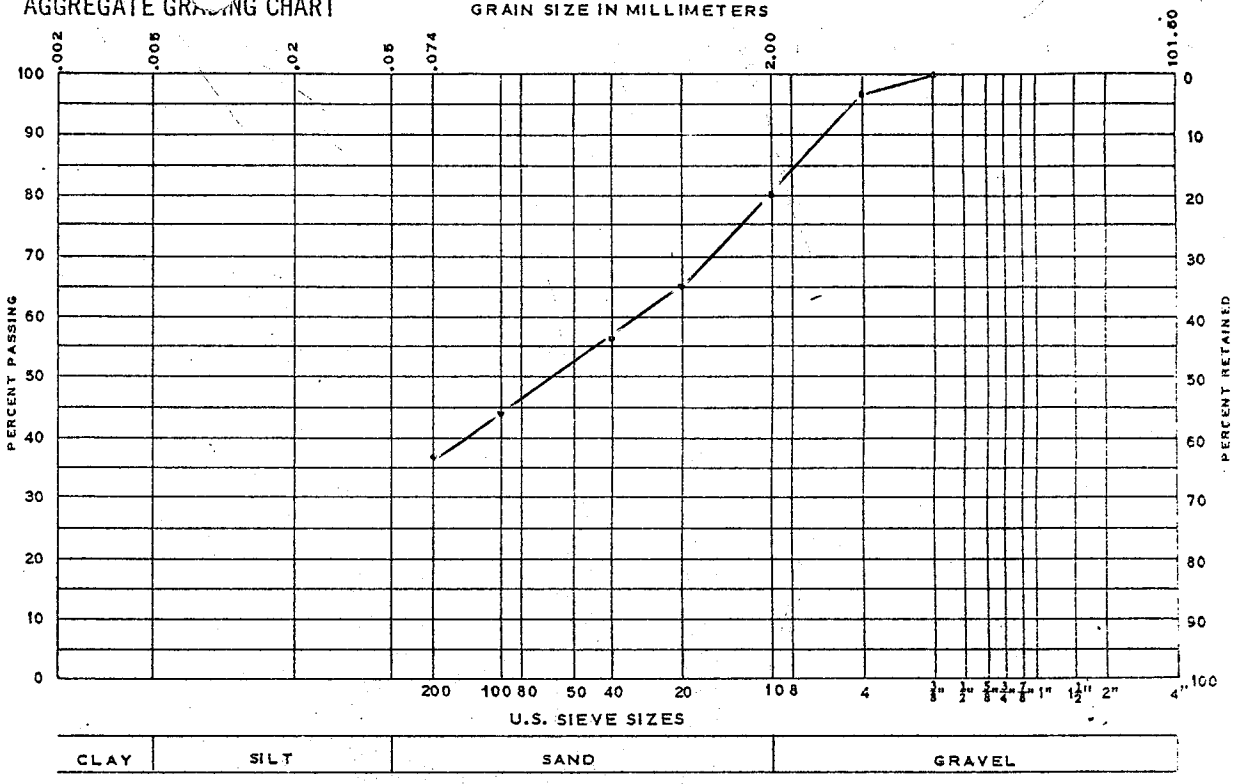
% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER
96.4	#4
80.0	10
65.0	20
56.0	40
44.3	100
36.5	200

% + 4"

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		21.7 12.0 4.7										
		A-4										
		S.M.-S.C.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY.

LOCATION STA. 5730

HOLE No. DEPTH 3'-7'

SAMPLE TYPE DATE SAMPLED JULY '69

FIELD SAMPLE No. 305 LAB SAMPLE No. 1015

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER DATE 25-3-71

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

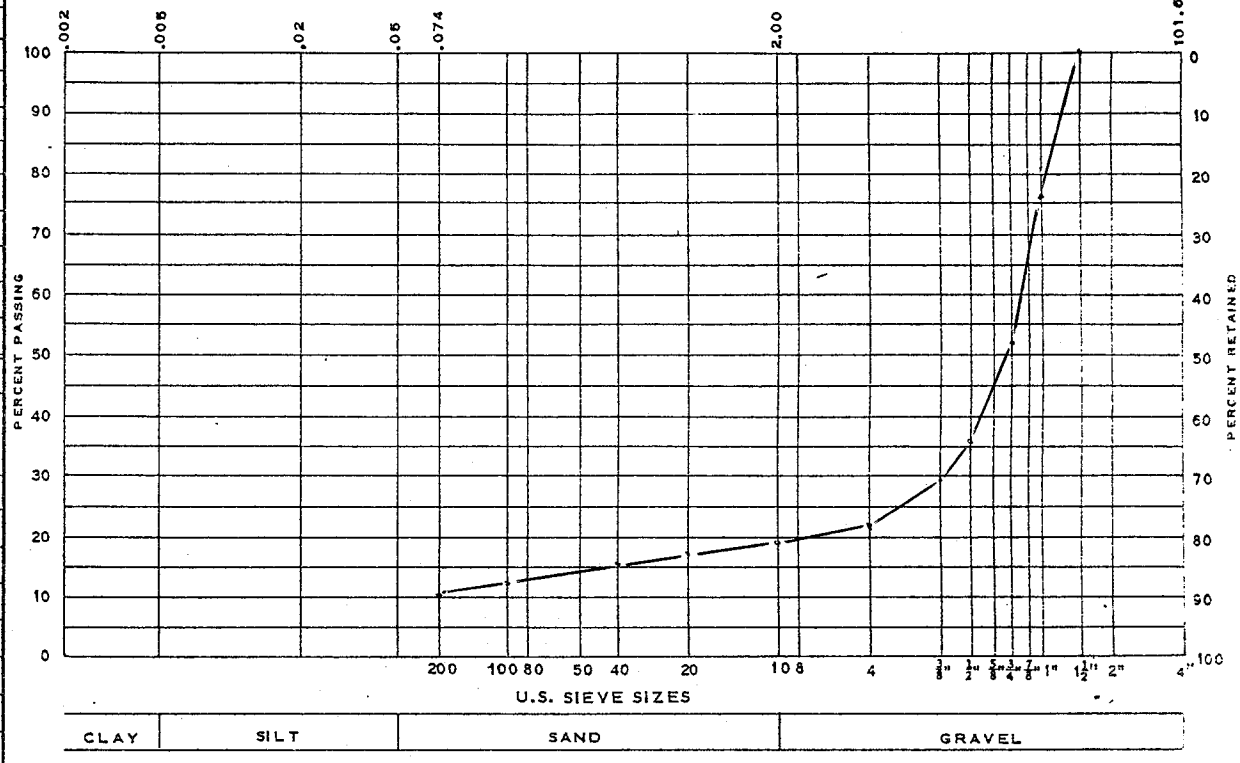
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	1 1/2"		19.0	#10					
75.7	1		16.9	20					
51.6	3/4		15.3	40					
35.7	1/2		12.2	100					
29.6	3/8		10.3	200					
22.1	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	DSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-a			00							
		G.P.										
		POORLY GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA. 5740

HOLE No. ..... DEPTH 3'-10'

SAMPLE TYPE ..... DATE SAMPLED July '69

FIELD SAMPLE No. 306 ..... LAB SAMPLE No. 1016

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER ..... DATE 25-3-71

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ..... DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

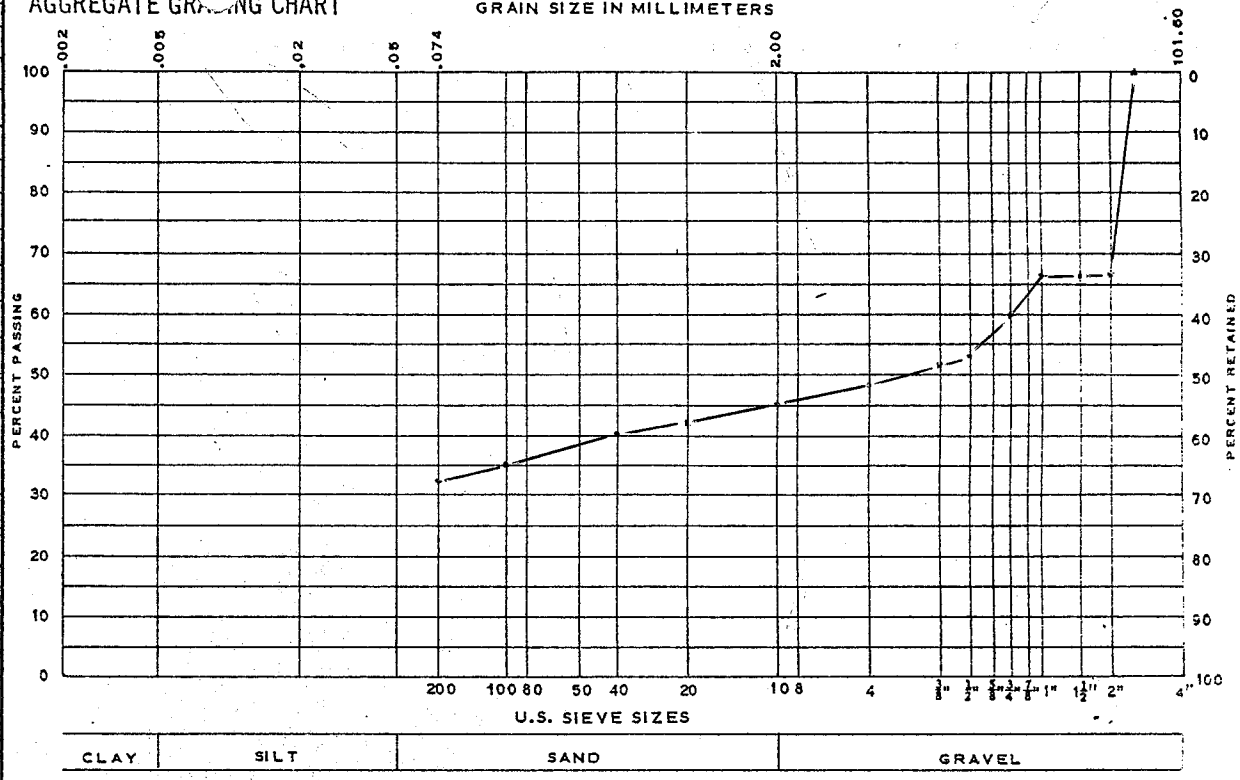
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	3"		45.4	#10					
66.1	2		42.7	20					
66.1	1 1/2		40.3	40					
66.1	1		35.1	100					
59.8	3/4		32.4	200					
53.5	1/2								
51.5	3/8								
47.9	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.7	20.7	2.0							
		A-2-4										
		S.M.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA. 5765

HOLE No. ..... DEPTH ✓

SAMPLE TYPE ..... DATE SAMPLED July '69

FIELD SAMPLE No. 307 ..... LAB SAMPLE No. 1017

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER

25-3-71
DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER

DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

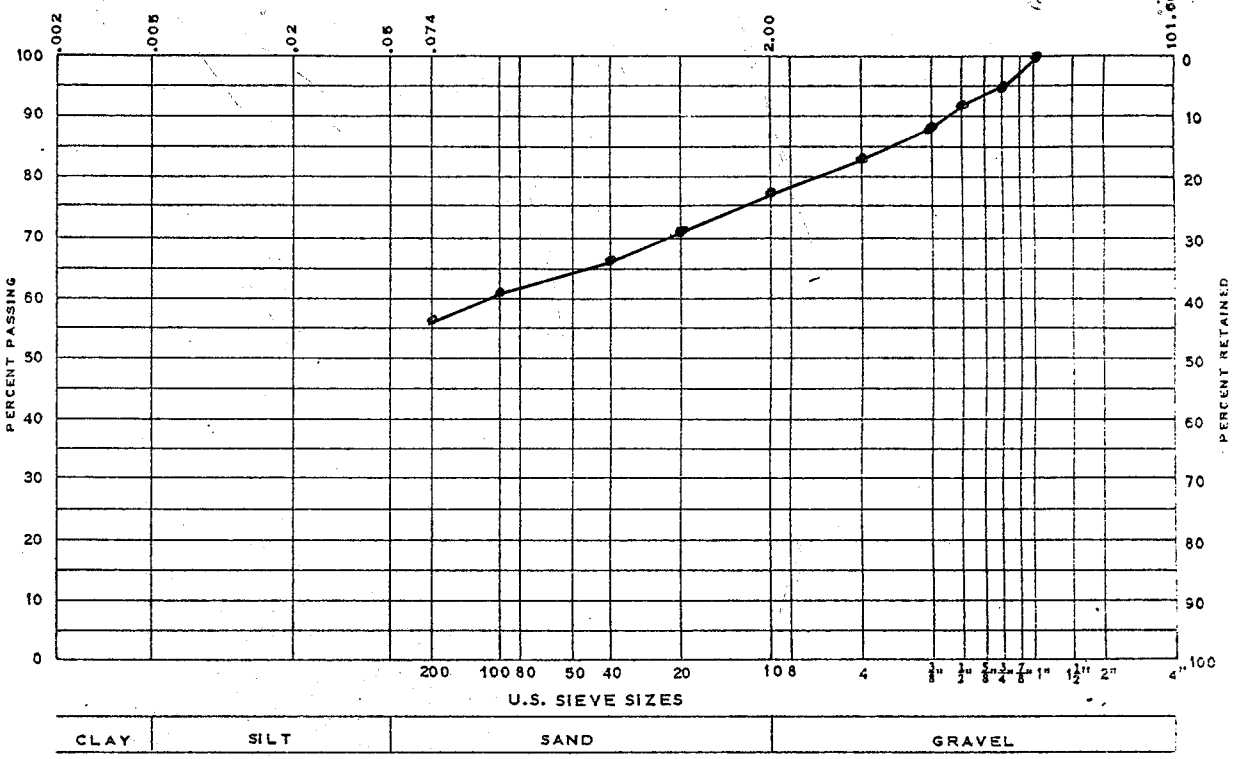
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER									
	%			%						
1"	100		# 4	83.6						
3/4"	95.2		# 10	76.8						
1/2"	92.0		# 20	70.7						
3/8"	88.6		# 40	66.7						
			# 100	60.8						
			# 200	55.8						
% + 4"										

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSPG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.9	18.9	4.0							
		A-4										
		M.L.										
		SILT - SAND MIXTURE WITH SLIGHT PLASTICITY										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT: DEMPSTER HIGHWAY

LOCATION: STA. 5770

HOLE No. ____ DEPTH: 1' TO 10'

SAMPLE TYPE ____ DATE SAMPLED: JUNE 69

FIELD SAMPLE No.: 308 LAB SAMPLE No.: 1018

D. P. W. WHITEHORSE - SOILS LAB

29-3-71

TESTING ENGINEER ____ DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ____ DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

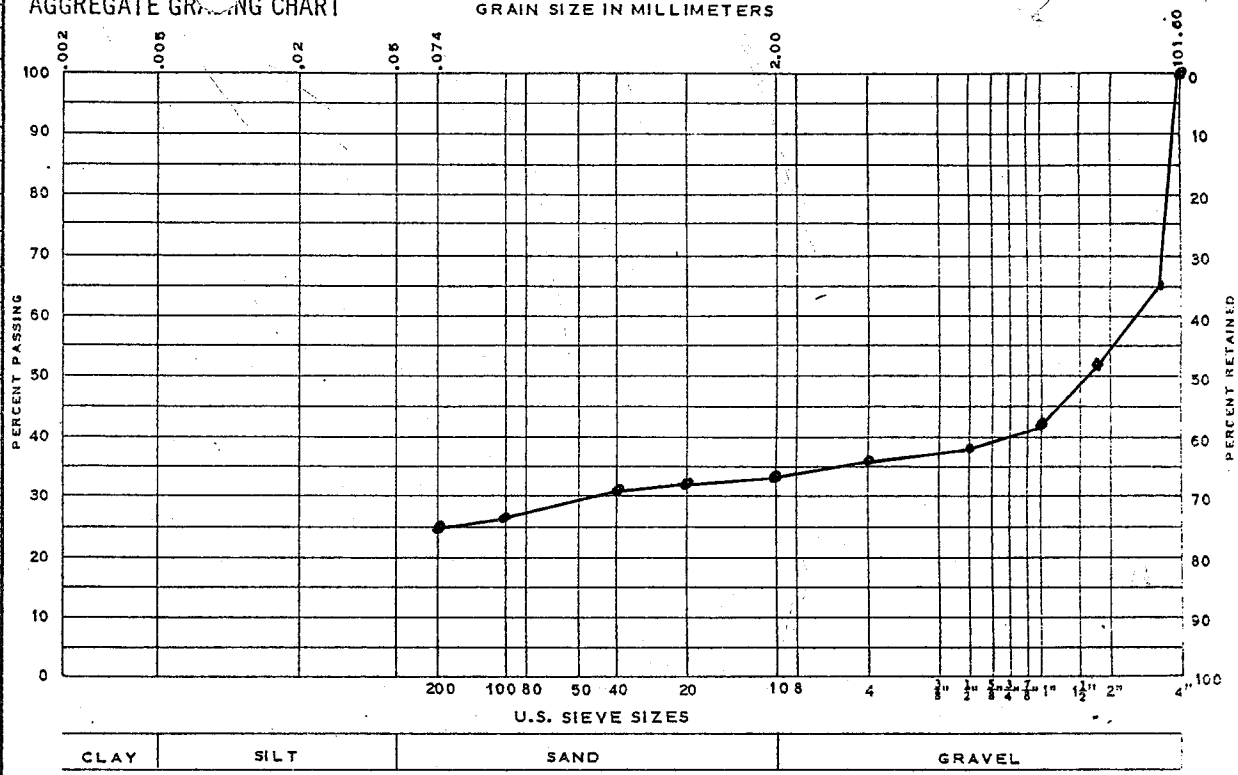
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER %			%
4 "	100		# 4	36.2
3 "	65.5		# 10	34.6
2 "	52.4		# 20	32.9
1½ "	52.4		# 40	31.1
1 "	42.1		# 80	27.1
¾ "	40.7		# 200	24.8
½ "	38.6			
⅜"	38.0			
% + 4"				

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO_4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
		A-1-b			0.0							
		G.P.										
		POOR to FAIR GRADED GRAVEL										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HIGHWAY

LOCATION STA. 5780

HOLE No. ____ DEPTH 4' to 8'

SAMPLE TYPE ____ DATE SAMPLED JUNE 69

FIELD SAMPLE No. 309 LAB SAMPLE No. 1019

D. P. W. WHITEHORSE - SOILS LAB

30-3-71

TESTING ENGINEER ____ DATE

MATERIALS ENGINEER'S REMARKS

MATERIALS ENGINEER ____ DATE

AGGREGATE DEPOSIT REPORT (Cont'd)

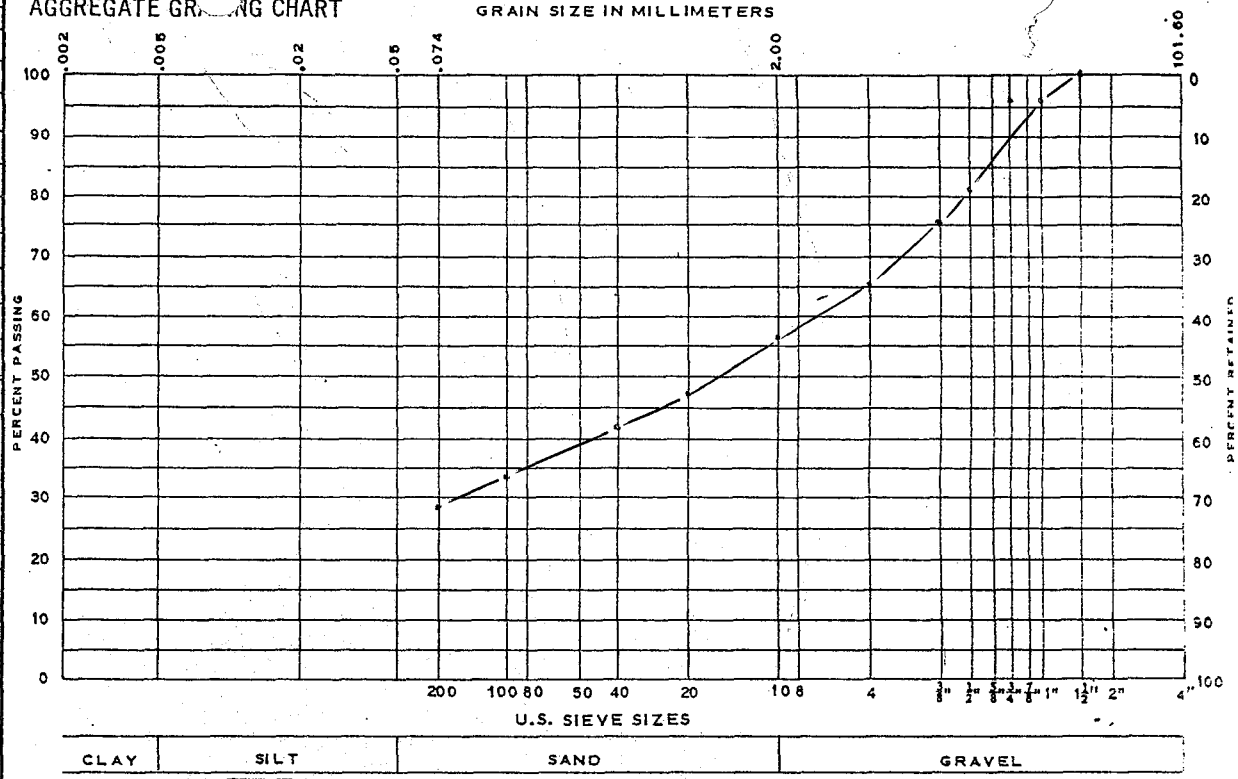
SHEET

% FINER BY WEIGHT	SIEVE ANALYSIS SAMPLE NUMBER								
100.0	1 1/2		55.7	#10					
95.9	1		47.2	20					
95.9	3/4		41.5	40					
81.1	1/2		34.0	100					
75.2	3/8		29.1	200					
65.2	#4								
% + 4"									

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	L.L.	P.L.	P.I.	L.A. % LOSS	MG SO4 % LOSS	BSpG	COLOUR	% WATER ABSORB.	% ASPH. ABSORB.	F.M.
			22.7	20.7	2.0							
		A-2-4										
		S.M.										
		SILTY SAND										

AGGREGATE GRADING CHART

GRAIN SIZE IN MILLIMETERS



TYPICAL PETROGRAPHIC ANALYSIS

COARSE AGGREGATE

ROCK TYPE	%

FINE AGGREGATE

ROCK TYPE	%

LABORATORY'S REMARKS

PROJECT DEMPSTER HI-WAY

LOCATION STA. 5840

HOLE No. ..... DEPTH 3' to 10'

SAMPLE TYPE ..... DATE SAMPLED .....

FIELD SAMPLE No. 310 LAB SAMPLE No. 1020 ~~2991~~

D. P. W. WHITEHORSE - SOILS LAB

TESTING ENGINEER 25-3-71 DATE

MATERIALS ENGINEER'S REMARKS

1020 - 3'-10' STA. 5840 SAMPLE # 310

~~2991 - 6'12' STA. 2425 SAMPLE # 157~~

MATERIALS ENGINEER DATE