



**ASTM D6938 In-Place Density and Water Content of Soil and
Soil-Aggregate by Nuclear Methods (Shallow Depth)**

Project: Matson
Fairbanks, AK
Client: Watterson Construction

Project #: 2026-018
Date: July 31, 2026
Area Tested: Parking lot

Material / Source:
Screened Pitrun/ FSGA 139.3

Gauge: Instrotek 3500
Operator: Markus Mack

Ser: # 1903

Test #	Soil Type	Test Depth(in)	Lift Elev	Location	Wet Density	% Moist.	Dry Density	Max Density	Percent Density	Required Density
1	SC PR	10"	1	Parking lot (see map)	140.9	4.8	134.4	139.3	96.5%	95%
2	SC PR	10"	1	Parking lot (see map)	139.8	3.5	135.1	139.3	97.0%	95%
3	SC PR	10"	1	Parking lot (see map)	144.2	5.0	137.3	139.3	98.6%	95%
4	SC PR	10"	1	Parking lot (see map)	140.7	3.8	135.5	139.3	97.3%	95%
5	SC PR	10"	1	Parking lot (see map)	138.4	4.0	133.1	139.3	95.5%	95%
6	SC PR	10"	1	Parking lot (see map)	141.5	5.9	133.6	139.3	95.9%	95%
7	SC PR	10"	1	Parking lot (see map)	140.0	5.0	133.3	139.3	95.7%	95%
8	SC PR	10"	1	Parking lot (see map)	141.3	4.0	135.9	139.3	97.5%	95%
9	SC PR	10"	1	Parking lot (see map)	139.4	4.7	133.1	139.3	95.6%	95%

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Test #	Soil Type	Test Depth(in)	Lift Elev	Location	Wet Density	% Moist.	Dry Density	Max Density	Percent Density	Required Density
10	SC PR	10"	1	Parking lot (see map)	140.3	4.3	134.5	139.3	96.6%	95%
11	SC PR	10"	1	Parking lot (see map)	138.2	4.1	132.8	139.3	95.3%	95%
12	SC PR	10"	1	Parking lot (see map)	139.4	4.9	132.9	139.3	95.4%	95%
13	SC PR	10"	1	Parking lot (see map)	141.3	4.0	135.9	139.3	97.5%	95%
14	SC PR	10"	1	Parking lot (see map)	139.0	3.9	133.8	139.3	96.0%	95%
15	SC PR	10"	1	Parking lot (see map)	145.3	5.7	137.5	139.3	98.7%	95%
16	SC PR	10"	1	Parking lot (see map)	143.0	5.6	135.4	139.3	97.2%	95%

1
C201

1.5' GRAVEL SHOULDER, TYP.

- LANDSCAPE AREA, TYP.

R445.0'

R432.0'

R439.0'

- TWO-WAY TRAFFIC AISLES

TWO-WAY
TRAFFIC AISLES

12.0', TYP.

12.0'

12.0', TYP.

12.0', TYP.

75.0°

CONCRETE
HARDSTAND, TYP
SEE DETAIL
SHEET C202

WHITE, TYP.

PIPE YARD

187.9'

177.9'

1.5' GRAVEL SHOULDER, TYP.

STORM WATER
RETENTION BASIN
(439.00')

GHWAY

8' CHAIN LINK FENCE
WITH (3) BARBED WIRE,
SEE SHEET C401

OFFICE

C-103 DETAILED SITE PLAN

Watterson $\frac{5}{3}$
7/31/26