



Somat Engineering, Inc.

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ASTM D6938

REPORT NUMBER: 002 SHEET: 1 OF 1

DENSITY & MOISTURE DETERMINATION REPORT

DATE: 6/21/2021

JOB NUMBER: 2020073D (PW-7017)

PROJECT NAME: Grand Parklet Streetscape

LOCATION: Detroit, MI

GAUGE NUMBER: 2407

CLIENT: WSP

OWNER: City of Detroit

CONTRACTOR: Major

PROJECT ENGINEER: Jason Lukasik, P.E.

WEATHER: clear

TEST PERFORMED ON:			SUBGRADE		SUBBASE		X		AGGREGATE BASE		BACKFILL		OTHER	
STRUCTURE:														
TEST			WET DENSITY		MOISTURE			DRY DENSITY			TEST LOCATION			
ORIGINAL	RETEST	DEPTH	DENSITY COUNTS	WET DENSITY	MOIST. COUNTS	MOIST.	MOIST.	DRY DENSITY	MAX DENSITY	COMPACT.	STATIONING/LOCATION	OFFSET OF CL (FT)		DBG (FT)
		INCH	DC	PCF	MC	PCF	%	PCF	PCF	%		LEFT	RIGHT	
1		4"	3295	130.2	113	15.5	13.5		139.4	93.4	21AA REC AGG. BASE Grand river/Plainview sidewalk			0.5
6/21/2021	1	4"	3127	133.1	113	15.5	13.1		139.4	95.5	21AA REC AGG. BASE Grand river/Plainview sidewalk			0.5
2		4"	2965	136.0	119	16.3	13.7		139.4	97.5	21AA REC AGG. BASE Grand river/Plainview sidewalk			0.5
MAXIMUM DETERMINATION (FIELD) NOTE: To convert (g) to (lbs): Wt (g) / 453.59 = Wt. (lbs)											STANDARDIZATION			
TEST NUMBER	MOISTURE %	MOLD VOLUME (CFT)	WET SOIL + MOLD (g)	MOLD (g)	WET SOIL (g)	WET SOIL (lbs)	COMPACTED WET SOIL PCF	MAX DENSITY	OPTIMUM MOISTURE %	MATERIAL	READING 1	DENSITY	MOISTURE	
1	13.5	0.0334	4296	2184	2112	4.66	139.4	139.4	12%- 15%	21AA-REC	READING 2	3122	416	
											READING 3	3135	420	
											READING 4	3124	412	
											OPERATING STANDARD (READING 5)			
											DENSITY		MOISTURE	
											3124		420	
MIN. COMPACTION REQUIRED:			100.0%		98.0%		X		95.0%		90.0%		OTHER	
MAXIMUM DRY DENSITY BY:			MICH. CONE		D1557		X		T-99		T-180		OTHER	
REMARKS:														
*1- 21AA REC AGG BASE For sidewalk Grand River/Plainview East of Evergreen. (Agg under decorative concrete)														
SOMAT FIELD REPRESENTATIVE: Nick Suchy											DATE: 6/21/2021			
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.											DATE: 6/22/2021			

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