



Somat Engineering, Inc.

26445 Northline Rd, Taylor, MI 48180
Tel: 734-946-4966 Fax: 734-946-1147

ASTM D6938

REPORT NUMBER: 001 SHEET: 1 OF 1

DENSITY & MOISTURE DETERMINATION REPORT

DATE: 11/21/2020

JOB NUMBER: 2020073D (PW-7017)

PROJECT NAME: Grand Parklet Streetscape

LOCATION: Detroit, MI

GAUGE NUMBER: 23944

CLIENT: WSP

OWNER: City of Detroit

CONTRACTOR: MAJOR

PROJECT ENGINEER: Jason Lukasik, P.E.

WEATHER: CLOUDY

TEST PERFORMED ON:		SUBGRADE	SUBBASE	X	AGGREGATE BASE	BACKFILL	OTHER							
STRUCTURE: AGG BASE ON ALLEY ON PLAINVIEW AND GRAND RIVER ELECTRICAL CROSSINGS														
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	1932	125.9	130	10.9	9.5		131.1	96.0	PLAINVIEW AND GRAND RIVER ELECTRICAL CROSSINGS			1
2		4	1974	124.8	130	10.9	9.6		131.0	95.2	PLAINVIEW AND GRAND RIVER ELECTRICAL CROSSINGS			1
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	9.5	0.0335	4158	2166	1992	4.39	131.1	131.1	8-11	21AA CC	READING 2	1777	634	
											READING 3	1769	625	
											READING 4	1763	628	
											OPERATING STANDARD (READING 5)			
											DENSITY		MOISTURE	
											1773		630	
MIN. COMPACTION REQUIRED:					100.0%		98.0%		X	95.0%	90.0%		OTHER	
MAXIMUM DRY DENSITY BY:					MICH. CONE		D1557			T-99	X	T-180	OTHER	
REMARKS:														
SOMAT FIELD REPRESENTATIVE: ANDREW LEE											DATE: 11/21/2020			
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.											DATE: 11/22/2020			

*All results noted in this report relate only to items inspected or tested by Somat Engineering, Inc. and/or Somat Engineering of Ohio, Inc. (Somat). This report shall not be reproduced, except in full, without the prior written approval of Somat.