



Somat Engineering, Inc.

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

ASTM D6938

REPORT NUMBER: 201 SHEET: 1 OF 1

DENSITY & MOISTURE DETERMINATION REPORT

DATE: 10/17/2020

JOB NUMBER: 2019057B

PROJECT NAME: Kercheval Streetscape(PW-7005)

LOCATION: Detroit, MI

GAUGE NUMBER: 33531

CLIENT: AECOM & City of Detroit

OWNER: City of Detroit (Public Works)

CONTRACTOR: Major Concrete

PROJECT ENGINEER: Allen Ostrowski (AECOM)

WEATHER: Clear

TEST PERFORMED ON:		SUBGRADE	X	SUBBASE		AGGREGATE BASE	X	BACKFILL		OTHER				
STRUCTURE: Recycled Stone Subbase for sidewalks & Class II backfill for electrical conduit trench.														
TEST			WET DENSITY		MOISTURE			DRY DENSITY			TEST LOCATION			
ORIG.	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	2559	121.9	104	9.1	8.0		127.0	96.0	47+00	32.0		0.5
2		8	1437	118.8	75	6.2	5.5	112.6	112.7	99.9	38+50	33.0		2
3		8	1429	118.9	86	7.3	6.5	111.7	112.7	99.1	36+25	36.0		1
MAXIMUM DETERMINATION (FIELD) NOTE: To convert (g) to (lbs): Wt (g) / 453.59 = Wt. (lbs)											STANDARDIZATION			
TEST #	MOIST. %	MOLD VOL. (CFT)	WET SOIL + MOLD (g)	MOLD (g)	WET SOIL (g)	WET SOIL (lbs)	COMPACTED WET SOIL PCF	MAX DENSITY	OPTIMUM MOIST. %	MATERIAL	READING 1	DENSITY	MOISTURE	
1	8	0.0333	4090	2172	1918	4.23	127.0	127.0	6.5-9.5	Recycled Stone	READING 2	1915	600	
2	5.5	0.0447	4277	1890	2387	5.26	117.7	112.7	14.2	Class II	READING 3	1902	597	
											READING 4	1918	599	
											OPERATING STANDARD (READING 5)			
											DENSITY		MOISTURE	
											1923		599	
MIN. COMPACTION REQUIRED:					100.0%			98.0%	X	95.0%		90.0%		OTHER
MAXIMUM DRY DENSITY BY:				X	MICH. CONE			D1557		T-99	X	T-180		OTHER
REMARKS:														
SOMAT FIELD REPRESENTATIVE: Cody Cervelli											DATE: 10/17/2020			
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.											DATE: 10/18/2020			

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