



Somat Engineering, Inc.

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ASTM D6938

REPORT NUMBER: 201 SHEET: 1 OF 1

DENSITY & MOISTURE DETERMINATION REPORT

DATE: 10/13/2020

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: Alan Ostrowski (AECOM)

WEATHER: Clear

TEST PERFORMED ON:		SUBGRADE	SUBBASE	AGGREGATE BASE	X	BACKFILL	OTHER							
STRUCTURE: 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		8	1556	114.9	104	9.1	8.6	105.8	109.7	96.4	51+75	33.0		2
2		8	1614	113.3	100	8.7	8.3	104.6	109.7	95.4	50+50	32.0		1
3		8	1677	111.8	80	6.7	6.4	105.1	109.7	95.8	49+00	33.0		2
4		8	1628	113.1	74	6.1	5.7	107.0	109.7	97.5	47+00	34.0		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	8.6	0.0447	4293	1890	2403	5.30	118.5	109.7	15.3	Class II	READING 2	1908	604	
											READING 3	1900	595	
											READING 4	1915	600	
											OPERATING STANDARD (READING 5)			
											DENSITY		MOISTURE	
											1902		595	
MIN. COMPACTION REQUIRED:					100.0%			98.0%	X	95.0%		90.0%	OTHER	
MAXIMUM DRY DENSITY BY:				X	MICH. CONE			D1557		T-99		T-180	OTHER	
REMARKS:														
SOMAT FIELD REPRESENTATIVE: Cody Cervelli											DATE: 10/13/2020			
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.											DATE: 10/14/2020			

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