



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 202 SHEET: 1 OF 1

ASPHALT DENSITY DETERMINATION REPORT

DATE: 10/16/2020

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: Cadillac Asphalt

PROJECT ENGINEER: Allen Ostrowski (AECOM)

WEATHER: Clear

TEST PERFORMED ON:		WEARING COURSE (WC)		X		LEVELING COURSE (LC)		BASE COURSE (BC)		OTHER				
STRUCTURE: Paving from Burns St. to Harding St.														
TEST			WET DENSITY		MOISTURE			DENSITY		TEST LOCATION				
ORIG.	RETEST	DEPTH	DENSITY COUNTS	WET DENSITY	MOIST. COUNTS	MOIST.	MOIST.	MAX DENSITY	COMPACT.	STATIONING/LOCATION	OFFSET OF CL (FT)		COURSE	
		INCH	DC	PCF	MC	PCF	%	PCF	%		LEFT	RIGHT		
1		BS	495	145.1	85	7.2	5.2	155	93.6	77+00	20		BL	
2		BS	483	146.8	91	7.8	5.6	155	94.7	85+50	26		BL	
3		BS	449	151.7	98	8.5	5.9	155	97.9	94+00	19		BL	
4		BS	502	144.1	98	8.5	6.2	155	93	102+75	22		BL	
5		BS	479	147.2	115	10.2	7.4	155	95	111+00	27		BL	
6		BS	481	147	98	8.5	6.1	155	94.8	78+50	15		BL	
7		BS	490	145.8	99	8.6	6.2	155	94	88+50	10		BL	
MAXIMUM DETERMINATION (LAB)										PRESCALE				
NOTE: Gmb to Marshall conversion is $Gmb \times 62.4 \text{ (PCF)} = \text{MARSHALL (PCF)}$										16		16		
NOTE: Gmm to TMD conversion is $Gmm \times 62.4 \text{ (PCF)} = \text{TMD (PCF)}$										DENSITY		MOISTURE		
MAXIMUM WET DENSITY BY:			MARSHALL/Gmb 95.0%				TMD/Gmm 92.0% - 96.0%				DENSITY		MOISTURE	
			TMD/Gmm 92.0% - 97.0%				X TMD/Gmm 92.0% - 98.0%				READING 1		1908 604	
REMARKS:										READING 2		1900 595		
Material used was 4E3. TMD = 155.0										READING 3		1915 600		
										READING 4		1902 597		
										OPERATING STANDARDS (READING 5)				
										DENSITY		MOISTURE		
										1918		599		
SOMAT FIELD REPRESENTATIVE:					Cody Cervelli					DATE:		10/16/2020		
SOMAT PROJECT MANAGER(s):					Steve Drummond, P.E.					DATE:		10/17/2020		

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