



Somat Engineering, Inc.

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

ASTM D2950

REPORT NUMBER: 202 SHEET: 1 OF 1

ASPHALT DENSITY DETERMINATION REPORT

DATE: 9/15/2020

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: Kercheval from E. Grand Blvd to Burns 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	499	144.5	95	8.2	6	155	93.3	36+00	17		BL
2		BS	503	144.1	81	6.8	4.9	155	92.9	46+00	20		BL
3		BS	492	145.5	95	8.2	6	155	93.9	54+00	22		BL
4		BS	488	146	96	8.3	6	155	94.2	64+00	18		BL
5		BS	496	144.9	95	8.2	6	155	93.5	72+00	24		BL
6		BS	482	146.9	90	7.7	5.5	155	94.8	40+00	4		BL
7		BS	457	150.5	97	8.4	5.9	155	97.1	48+00	10		BL
8		BS	459	150.3	87	7.4	5.2	155	97	57+00	6		BL
9		BS	489	146	73	6	4.3	155	94.2	62+00	8		BL
10		BS	502	144.1	94	8.1	5.9	155	93	70+00	11		BL
11		BS	487	146.2	92	7.9	5.7	155	94.3	58+00 Approach	32		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 597	
REMARKS:										READING 2		1908 594	
TMD is 155.0 Mix used was 4E3.										READING 3		1922 595	
										READING 4		1926 601	
										OPERATING STANDARDS (READING 5)			
										DENSITY		MOISTURE	
										1918		598	
SOMAT FIELD REPRESENTATIVE:					Cody Cervelli					DATE: 9/15/2020			
SOMAT PROJECT MANAGER(s):					Steve Drummond, P.E.					DATE: 9/16/2020			

*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.