



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 202 SHEET: 1 OF 2

ASPHALT DENSITY DETERMINATION REPORT

DATE: 11/19/2020

JOB NUMBER: 2019057B

PROJECT NAME: Kercheval Streetscape (PW-7005)

LOCATION: Detroit, MI

GAUGE NUMBER: 2131

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) ☐ LEVELING COURSE (LC) ☐ BASE COURSE (BC) ☐ OTHER ☐													
STRUCTURE: Mainline Paving 2 Lanes on Kercheval from Parker to St. Clair.													
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	790	143.8	42	5.6	4.1	154.4	93.1	61+00	6		WC
2		BS	792	143.5	59	8.4	6.2	154.4	92.9	66+50	26		WC
3		BS	775	145.1	55	7.7	5.6	154.4	94	74+50	25		WC
4		BS	720	150.5	56	7.9	5.5	154.4	97.4	83+00	20		WC
5		BS	721	150.3	57	8	5.7	154.4	97.4	92+15	23		WC
6		BS	764	146.2	52	7.2	5.2	154.4	94.7	102+00	19		WC
7		BS	805	142.4	44	6	4.4	154.4	92.2	111+50	28		WC
8		BS	720	150.5	46	6.3	4.4	154.4	97.5	70+75	17		WC
9		BS	792	143.6	42	5.6	4.1	154.4	93	78+50	16		WC
10		BS	753	147.2	51	7.1	5.1	154.4	95.4	88+00	16		WC
11		BS	771	145.5	51	7.1	5.1	154.4	94.2	97+00	14		WC

MAXIMUM DETERMINATION (LAB)						PRESCALE		
NOTE: Gmb to Marshall conversion is $Gmb \times 62.4 \text{ (PCF)} = \text{MARSHALL (PCF)}$						16		
NOTE: Gmm to TMD conversion is $Gmm \times 62.4 \text{ (PCF)} = \text{TMD (PCF)}$						16		
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%		DENSITY		MOISTURE
REMARKS:						READING 1		
Material used was 5E3. TMD = 154.4						2773		
						READING 2		
						2735		
						READING 3		
						2732		
						381		
						READING 4		
						2733		
						382		
						382		
OPERATING STANDARDS (READING 5)								
DENSITY						MOISTURE		
2732						379		

SOMAT FIELD REPRESENTATIVE:	Cody Cervelli	DATE:	11/19/2020
SOMAT PROJECT MANAGER(s):	Steve Drummond, P.E.	DATE:	11/20/2020

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