



Somat Engineering, Inc.

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

ASTM D2950

REPORT NUMBER: 202 SHEET: 2 OF 2

ASPHALT DENSITY DETERMINATION REPORT

DATE: 12/4/2020

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:		X	WEARING COURSE (WC)			LEVELING COURSE (LC)			BASE COURSE (BC)			OTHER		
STRUCTURE: Approaches on NB side of Kercheval from Mt. Elliot to St. Jean.														
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		
12		BS	788	143.7	58	8.2	6.1	154.4	93.1	119+00	34		WC	
13		BS	800	142.7	42	5.6	4.1	154.4	92.5	126+50	31		WC	
14		BS	767	145.8	48	6.6	4.7	154.4	94.4	133+10	30		WC	
15		BS	762	146.3	47	6.4	4.6	154.4	94.7	139+15	33		WC	
16		BS	749	147.5	47	6.4	4.6	154.4	95.5	136+00		33.00	WC	
17		BS	782	144.3	50	6.9	5	154.4	93.5	130+00		35.00	WC	
18		BS	718	150.6	51	7.1	4.9	154.4	97.5	122+55		32.00	WC	
19		BS	756	146.8	46	6.3	4.5	154.4	95.1	115+75		31.00	WC	
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		2736 386		
REMARKS:										READING 2		2731 386		
Material used was 5E3. TMD = 154.4										READING 3		2723 379		
										READING 4		2727 379		
										OPERATING STANDARDS (READING 5)				
										DENSITY		MOISTURE		
										2721		385		
SOMAT FIELD REPRESENTATIVE:					Cody Cervelli					DATE:		12/4/2020		
SOMAT PROJECT MANAGER(s):					Steve Drummond, P.E.					DATE:		12/5/2020		

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