



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 202 SHEET: 1 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			
1		BS	759	146.5	58	8.2	5.9	154.4	94.9	13+75	35		WC		
2		BS	754	147	53	7.4	5.3	154.4	95.2	17+70	33		WC		
3		BS	764	146	55	7.7	5.6	154.4	94.6	21+65	30		WC		
4		BS	760	146.4	56	7.9	5.7	154.4	94.8	28+50	29		WC		
5		BS	791	143.5	57	8	5.9	154.4	92.9	33+50	32		WC		
6		BS	744	148	50	6.9	4.9	154.4	95.8	70+80	34		WC		
7		BS	757	146.6	59	8.4	6	154.4	95	78+90	31		WC		
8		BS	731	149.3	49	6.8	4.7	154.4	96.7	86+15	30		WC		
9		BS	769	145.6	49	6.8	4.9	154.4	94.3	92+25	33		WC		
10		BS	781	144.4	50	6.9	5	154.4	93.5	99+50	29		WC		
11		BS	805	142.2	49	6.8	5	154.4	92.1	112+20	32		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		2728		385	
										READING 2		2736		386	
										READING 3		2731		386	
										READING 4		2723		379	
										OPERATING STANDARDS (READING 5)					
										DENSITY		MOISTURE			
										2727		379			
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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