



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 202 SHEET: 1 OF 1

ASPHALT DENSITY DETERMINATION REPORT

DATE: 11/14/2020

JOB NUMBER: 2019057B

PROJECT NAME: Kercheval Streetscape (PW-7005)

LOCATION: Detroit, MI

GAUGE NUMBER: 2409

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: Mainline Paving 4 Lanes on Kercheval from Mt. Elliot to E. Grand Blvd.															
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)		COURS E		
		INCH	DC	PCF	MC	PCF	%	PCF	%		LEFT	RIGHT			
1		BS	861	145	71	8.1	5.9	154.4	93.9	17+50	20		WC		
2		BS	881	143.4	75	8.6	6.4	154.4	92.8	25+50	17		WC		
3		BS	833	147.5	64	7.2	5.1	154.4	95.5	19+00	6		WC		
4		BS	827	148	58	6.4	4.6	154.4	95.9	28+60	10		WC		
5		BS	882	143.4	56	6.2	4.5	154.4	92.9	16+25	-	-	WC		
6		BS	828	147.9	68	7.7	5.5	154.4	95.8	24+00	-	-	WC		
7		BS	821	148.4	72	8.3	5.9	154.4	96.1	31+00	-	-	WC		
8		BS	862	145	59	6.6	4.8	154.4	93.9	14+00		12.00	WC		
9		BS	845	146.4	61	6.8	4.9	154.4	94.8	22+50		16.00	WC		
10		BS	817	148.8	78	9	6.5	154.4	96.3	34+15		9.00	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		2908		466	
Material used was 5E3. TMD = 154.4										READING 2		2913		469	
										READING 3		2929		471	
										READING 4		2930		468	
										OPERATING STANDARDS (READING 5)					
										DENSITY		MOISTURE			
										2926		467			
SOMAT FIELD REPRESENTATIVE:					Cody Cervelli					DATE:		11/14/2020			
SOMAT PROJECT MANAGER(s):					Steve Drummond, P.E.					DATE:		11/15/2020			

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