



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 202 SHEET: 1 OF 2

ASPHALT DENSITY DETERMINATION REPORT

DATE: 12/5/2020

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 SB side of Kercheval from Mt. Elliot to Garland & Mainline Lane on NB side between E. Grand Blvd. & Van Dyke															
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	764	145.8	55	7.6	5.5	154.4	94.5	17+65		29.00	WC		
2		BS	762	146	54	7.4	5.4	154.4	94.6	25+50		30.00	WC		
3		BS	784	144	51	7	5.1	154.4	93.3	31+50		30.00	WC		
4		BS	712	151	52	7.1	4.9	154.4	97.8	43+00		32.00	WC		
5		BS	802	142.3	53	7.3	5.4	154.4	92.2	49+00		40.00	WC		
6		BS	796	142.9	50	6.8	5	154.4	92.5	54+00		35.00	WC		
7		BS	755	146.7	56	7.7	5.6	154.4	95	66+45		33.00	WC		
8		BS	780	144.4	49	6.6	4.8	154.4	93.5	75+25		31.00	WC		
9		BS	789	143.5	53	7.3	5.3	154.4	92.9	82+90		35.00	WC		
10		BS	794	143	59	8.2	6.1	154.4	92.6	89+15		33.00	WC		
11		BS	725	149.7	52	7.1	5	154.4	96.9	102+40		32.00	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		2736		386	
Material used was 5E3. TMD = 154.4										READING 2		2731		386	
										READING 3		2723		379	
										READING 4		2727		379	
										OPERATING STANDARDS (READING 5)					
										DENSITY		2721		385	
SOMAT FIELD REPRESENTATIVE: Cody Cervelli										DATE:		12/5/2020			
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.										DATE:		12/6/2020			

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