



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 202 SHEET: 1 OF 1

ASPHALT DENSITY DETERMINATION REPORT

DATE: 6/19/2020

JOB NUMBER: 2019057B

PROJECT NAME: Kerchevel Streetscape (PW-7005)

LOCATION: Detroit, MI

GAUGE NUMBER: 2408

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)		X		LEVELING COURSE (LC)		BASE COURSE (BC)		OTHER		
STRUCTURE:													
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	834	143.5	67	9.4	7	154.9	92.6	76+00		26.00	BL
2		BS	804	146.3	55	7.5	5.4	154.9	94.5	89+00		27.00	BL
3		BS	828	144.1	60	8.3	6.1	154.9	93	98+50		26.00	BL
4		BS	820	144.8	54	7.4	5.4	154.9	93.5	108+00		27.00	BL
5		BS	826	144.2	67	9.4	7	154.9	93.1	116+75		27.00	BL
6		BS	821	144.6	73	10.4	7.7	154.9	93.4	125+50		26.00	BL
7		BS	841	142.9	61	8.5	6.3	154.9	92.2	132+80		26.00	BL
8		BS	841	142.9	58	8	5.9	154.9	92.3	142+00		27.00	BL
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		387	
REMARKS:										READING 2		394	
Mix used was 5E3. TMD = 154.9										READING 3		388	
										READING 4		388	
										OPERATING STANDARDS (READING 5)			
										DENSITY		MOISTURE	
										2835		389	
SOMAT FIELD REPRESENTATIVE:					Cody Cervelli					DATE: 6/19/2020			
SOMAT PROJECT MANAGER(s):					Steve Drummond, P.E.					DATE: 6/20/2020			

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