



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 202 SHEET: 1 OF 2

ASPHALT DENSITY DETERMINATION REPORT

DATE: 6/29/2020

JOB NUMBER: 2019057B

PROJECT NAME: Kercheval Streetscape (PW-7005)

LOCATION: Detroit, MI

GAUGE NUMBER: 11106

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: Approaches on Kercheval.													
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	427	144.2	116	9.1	6.8	155	93	66+50		33.00	BB
2		BS	420	145.2	125	10	7.4	155	93.6	70+75		33.00	BB
3		BS	424	144.7	92	7	5	155	93.4	75+20		35.00	BB
4		BS	429	143.8	118	9.3	6.9	155	92.8	82+85		66.00	BB
5		BS	392	149.6	111	8.7	6.2	155	96.5	89+15		38.00	BB
6		BS	399	148.5	108	8.4	6	155	95.8	96+30		32.00	BB
7		BS	400	148.4	109	8.5	6.1	155	95.7	109+20		35.00	BB
8		BS	402	148.1	94	7.1	5.1	155	95.5	115+75		36.00	BB
9		BS	430	143.8	90	6.8	4.9	155	92.8	122+65		40.00	BB
10		BS	412	146.6	92	7	5	155	94.5	130+00		34.00	BB
11		BS	432	143.5	89	6.7	4.9	155	92.6	136+00		37.00	BB
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		667	
REMARKS:										READING 2		658	
Mix used was 4E3. TMD = 155.0										READING 3		667	
										READING 4		661	
										OPERATING STANDARDS (READING 5)			
										DENSITY		MOISTURE	
										1816		666	
SOMAT FIELD REPRESENTATIVE:					Cody Cervelli					DATE: 6/29/2020			
SOMAT PROJECT MANAGER(S):					Steve Drummond, P.E.					DATE: 7/27/2020			

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