



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 202 SHEET: 1 OF 1

ASPHALT DENSITY DETERMINATION REPORT

DATE: 11/18/2020

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: Mainline Paving 2 Lanes on Kercheval from E. Grand Blvd. to Parker..														
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	782	144.6	43	5.7	4.1	154.4	93.6	43+25		10.00	WC	
2		BS	730	149.5	48	6.5	4.6	154.4	96.9	59+00		12.00	WC	
3		BS	778	145	40	5.3	3.8	154.4	93.9	61+50		15.00	WC	
4		BS	713	151.2	50	6.9	4.7	154.4	98	40+00		8.00	WC	
5		BS	761	146.5	49	6.7	4.8	154.4	94.9	46+00		11.00	WC	
6		BS	791	143.7	48	6.5	4.8	154.4	93.1	56+15		7.00	WC	
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		2765 385	
REMARKS:										READING 2		2773 381		
Material used was 5E3. TMD = 154.4										READING 3		2735 384		
										READING 4		2732 382		
										OPERATING STANDARDS (READING 5)				
										DENSITY		MOISTURE		
										2733		382		
SOMAT FIELD REPRESENTATIVE:					Cody Cervelli					DATE:		11/18/2020		
SOMAT PROJECT MANAGER(s):					Steve Drummond, P.E.					DATE:		11/19/2020		

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