



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 202 SHEET: 1 OF 1

ASPHALT DENSITY DETERMINATION REPORT

DATE: 11/28/2020

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: Detail 7s on NB side of Kercheval from McClellan to St. Jean.														
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	717	150.6	58	8.1	5.7	154.4	97.6	97+00	28		WC	
2		BS	798	142.9	52	7.1	5.2	154.4	92.5	101+00	31		WC	
3		BS	775	145	53	7.3	5.3	154.4	93.9	104+00	29		WC	
4		BS	807	142.1	54	7.4	5.5	154.4	92	114+00	30		WC	
5		BS	790	143.5	69	9.8	7.3	154.4	92.9	124+60	27		WC	
6		BS	789	143.6	63	8.8	6.6	154.4	93	131+55	28		WC	
7		BS	802	142.6	44	5.8	4.3	154.4	92.3	134+53	29		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		2750 383	
REMARKS:										READING 2		2726 383		
Material used was 5E3. TMD = 154.4										READING 3		2730 381		
										READING 4		2744 384		
										OPERATING STANDARDS (READING 5)				
										DENSITY		MOISTURE		
										2728		385		
SOMAT FIELD REPRESENTATIVE:					Cody Cervelli					DATE:		11/28/2020		
SOMAT PROJECT MANAGER(s):					Steve Drummond, P.E.					DATE:		11/30/2020		

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