



Somat Engineering, Inc.

26445 Northline Rd, Taylor, MI 48180
Tel: 734-946-4966 Fax: 734-946-1147

ASTM D2950

REPORT NUMBER: 017 SHEET: 2 OF 2

ASPHALT DENSITY DETERMINATION REPORT

DATE: 8/10/2020

JOB NUMBER: 2020073E (PW-7018)

PROJECT NAME: HMA Mill & Resurfacing 2020

LOCATION: Detroit, MI

GAUGE NUMBER: 26254

CLIENT: CoD/WSP

OWNER: City of Detroit (CoD)

CONTRACTOR: AJAX

PROJECT ENGINEER: Jason Lukasik, P.E.

WEATHER: Sunny

TEST PERFORMED ON:		X	WEARING COURSE (WC)			LEVELING COURSE (LC)			BASE COURSE (BC)			OTHER		
STRUCTURE: Top Course on Carpenter From Dequinder & Contant														
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		
12		BS	498	146.2	119	9.4	6.9	156.2	93.6	Carpenter & Mitchell		7.00	0	
13		BS	501	145.9	110	8.6	6.3	156.2	93.4	Carpenter & McDougall		2.00	0	
14		BS	500	146	114	9	6.5	156.2	93.4	Carpenter & Charest		10.00	0	
15		BS	488	147.6	112	8.8	6.3	156.2	94.5	Carpenter & Sobieski		15.00	0	
16		BS	502	145.7	105	8.1	5.9	156.2	93.3	Carpenter & Moran		2.00	0	
17		BS	491	147.2	106	8.2	5.9	156.2	94.3	Carpenter & Contant		11.00	0	
MAXIMUM DETERMINATION (LAB)										PRESCALE				
NOTE: Gmb to Marshall conversion is $Gmb * 62.4 (PCF) = MARSHALL (PCF)$										16		16		
NOTE: Gmm to TMD conversion is $Gmm * 62.4 (PCF) = TMD (PCF)$										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		1874 670			
REMARKS: Top Course on Carpenter RD using 5E3 with a TMD of 156.2										READING 2		1864 675		
										READING 3		1857 679		
										READING 4		1859 676		
										OPERATING STANDARDS (READING 5)				
										DENSITY		MOISTURE		
		1874 668												
SOMAT FIELD REPRESENTATIVE: Cory Gray										DATE: 8/10/2020				
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.										DATE: 8/18/2020				

*All results noted in this report relate only to items inspected or tested by Somat Engineering, Inc. and/or Somat Engineering of Ohio, Inc. (Somat). This report shall not be reproduced, except in full, without the prior written approval of Somat.