



Somat Engineering, Inc.

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

ASTM D2950

REPORT NUMBER: 004 SHEET: 2 OF 2

ASPHALT DENSITY DETERMINATION REPORT

DATE: 7/20/2020

JOB NUMBER: 2020073E (PW-7018)

PROJECT NAME: HMA Mill & Resurfacing 2020

LOCATION: Detroit, MI

GAUGE NUMBER: 2127

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: Mainline														
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	756	144.5	56	7.1	5.1	156.2	92.5	42.4276, -83.0332		2.00	WC	
13		BS	711	149	56	7.1	5	156.2	95.4	42.4276, -83.0340	13		WC	
14		BS	731	146.9	61	7.8	5.6	156.2	94.1	42.4324, -83.0340	19		WC	
15		BS	733	146.7	59	7.5	5.4	156.2	93.9	42.4312, -83.0339	8		WC	
16		BS	744	145.7	48	5.9	4.2	156.2	93.3	42.4300, -83.0334	17		WC	
17		BS	741	146	55	6.9	5	156.2	93.4	42.4287, -83.0333	20		WC	
18		BS	759	144.2	55	6.9	5	156.2	92.3	42.4274, -83.0332	9		WC	
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%			X		TMD/Gmm 92.0% - 96.0%			DENSITY		MOISTURE	
			TMD/Gmm 92.0% - 97.0%					TMD/Gmm 92.0% - 98.0%			READING 1		423	
REMARKS:										READING 2		421		
										READING 3		427		
										READING 4		416		
										OPERATING STANDARDS (READING 5)				
										DENSITY		MOISTURE		
										2756		418		
SOMAT FIELD REPRESENTATIVE: Ryan Castillo										DATE: 7/20/2020				
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.										DATE: 7/24/2020				

*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.