

**ASPHALT DENSITY
DETERMINATION REPORT**

DATE: 7/15/2020

JOB NUMBER: 2020073E (PW-7018)

PROJECT NAME: HMA Mill & Resurfacing 2020

LOCATION: Detroit, MI

GAUGE NUMBER: 18353

CLIENT: CoD/WSP

OWNER: City of Detroit (CoD)

CONTRACTOR: Ajax

PROJECT ENGINEER: Jason Lukasik, P.E.

WEATHER: Sunny

TEST PERFORMED ON:		WEARING COURSE (WC)		X		LEVELING COURSE (LC)		BASE COURSE (BC)		OTHER			
STRUCTURE:													
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	371	146.4	103	10.1	7.4	158.1	92.6	42.23574, -83.1074	EB2		LC
13		BS	372	146.2	100	9.7	7.1	158.1	92.5	42.3547, -83.1074	EB2		LC
14		BS	368	147	99	9.6	7.1	158.1	93	42.3581, -83.1056	EB2		LC
15		BS	370	146.6	102	10	7.3	158.1	92.7	42.3584, -83.1048	EB2		LC
16		BS	372	146.2	102	10	7.3	158.1	92.5	42.3587, -83.1039	EB2		LC
17		BS	366	147.4	104	10.2	7.4	158.1	93.2	42.3591, -83.1028	EB2		LC
18		BS	354	149.8	108	10.6	7.6	158.1	94.8	42.3571, -83.1087		WB2	LC
19		BS	356	149.5	94	9.1	6.4	158.1	94.5	42.3596, -83.1017	EB2		LC
20		BS	374	145.8	106	10.4	7.7	158.1	92.2	42.3601, -83.1003		WB1	LC
21		BS	349	151	85	8	5.6	158.1	95.5	42.3602, -83.1004		WB1	LC
22		BS	370	146.8	76	7	5	158.1	92.8	42.3598, -83.1016		WB1	LC
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		1442 539		
REMARKS:										READING 2		1439 544	
Mix = 4E3, TMD = 158.1, on W Grand Blv starting at linwood ending at Grand River										READING 3		1446 545	
EB1 = East bound Line 1(First lane from center)										READING 4		1434 560	
EB2 = East bound Line 2(second lane from center)										OPERATING STANDARDS (READING 5)			
WB1 = West bound Line 1(First lane from center)										DENSITY		MOISTURE	
WB1 = West bound Line 2(second lane from center)										1446		542	
SOMAT FIELD REPRESENTATIVE: San Rofoo										DATE: 7/15/2020			
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.										DATE: 7/17/2020			

*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.