

**ASPHALT DENSITY
DETERMINATION REPORT**

DATE: 8/3/2020

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:		WEARING COURSE (WC)		LEVELING COURSE (LC)		X		BASE COURSE (BC)		OTHER			
STRUCTURE: Approaches													
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	723	147.5	63	8	5.7	158.1	93.3	SW Wyoming&Curtis			BC
2		BS	720	147.7	68	8.7	6.3	158.1	93.4	SW Wyoming&Santa Clara			BC
3		BS	708	148.9	74	9.6	6.9	158.1	94.2	NE Wyoming&Santa Maria			BC
4		BS	718	147.9	79	10.3	7.5	158.1	93.5	NE Wyoming&Thatcher			BC
5		BS	737	146	72	9.3	6.8	158.1	92.3	NE Wyoming&Curtis			BC
6		BS	739	145.8	75	9.7	7.2	158.1	92.2	NE Wyoming&Pickford			BC
7		BS	727	147	74	9.6	7	158.1	93	NE Wyoming&Margareta			BC
8		BS	724	147.3	68	8.7	6.3	158.1	93.2	NE Wyoming&Clarita			BC
9		BS	701	149.6	77	10	7.2	158.1	94.6	NE Wyoming&Cambridge			BC
10		BS	730	146.7	75	9.7	7.1	158.1	92.8	NE Wyoming&Pembroke			BC
11		BS	729	146.8	72	9.3	6.8	158.1	92.9	NE Wyoming&Chippawa			BC
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		2756	418	
REMARKS:										READING 2		2769	416
Tests were taken on the approaches.										READING 3		2737	415
										READING 4		2750	420
										OPERATING STANDARDS (READING 5)			
										DENSITY		MOISTURE	
										2747		421	
SOMAT FIELD REPRESENTATIVE: Ryan Castillo										DATE: 8/3/2020			
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.										DATE: 8/4/2020			

*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.