

**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:

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			
1		BS	720	148.1	51	6.4	4.5	156.2	94.8	42.4336, -83.0340		10.00	WC		
2		BS	756	144.5	52	6.5	4.7	156.2	92.5	42.4324, -83.0340		15.00	WC		
3		BS	754	144.7	55	6.9	5	156.2	92.6	42.4311, -83.0339		9.00	WC		
4		BS	744	145.7	45	5.5	3.9	156.2	93.3	42.4299, -83.0334		13.00	WC		
5		BS	743	145.8	50	6.2	4.4	156.2	93.3	42.4287, -83.0332		18.00	WC		
6		BS	737	146.4	53	6.6	4.8	156.2	93.7	42.4274, -83.0332		8.00	WC		
7		BS	711	149	55	6.9	4.9	156.2	95.4	42.4337, -83.0340	4		WC		
8		BS	724	147.7	54	6.8	4.8	156.2	94.5	42.4325, -83.0340		5.00	WC		
9		BS	741	146	54	6.8	4.9	156.2	93.4	42.4313, -83.0339	6		WC		
10		BS	735	146.6	49	6.1	4.3	156.2	93.9	42.4301, -83.0335		3.00	WC		
11		BS	744	145.7	52	6.5	4.7	156.2	93.3	42.4289, -83.0333	5		WC		
MAXIMUM DETERMINATION (LAB)										PRESCALE					
NOTE: Gmb to Marshall conversion is $Gmb * 62.4 (PCF) = MARSHALL (PCF)$										16					
NOTE: Gmm to TMD conversion is $Gmm * 62.4 (PCF) = TMD (PCF)$										16					
MAXIMUM WET DENSITY BY:			MARSHALL/Gmb 95.0%			TMD/Gmm 92.0% - 96.0%			DENSITY		MOISTURE				
			TMD/Gmm 92.0% - 97.0%			TMD/Gmm 92.0% - 98.0%			DENSITY		MOISTURE				
REMARKS:										READING 1		2775		423	
										READING 2		2750		421	
										READING 3		2734		427	
										READING 4		2769		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					

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