

**ASPHALT DENSITY
DETERMINATION REPORT**

DATE: 8/5/2020

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 (60-76)

TEST PERFORMED ON:		WEARING COURSE (WC)		x		LEVELING COURSE (LC)		BASE COURSE (BC)		OTHER			
STRUCTURE: Leveling course for mainline roadway on Tireman from Minock to Southfield Service Drive.													
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	501	145.6	92	6.8	4.9	158.1	92.1	Tireman at Westwood		3.00	LC
13		BS	477	148.8	119	9.3	6.7	158.1	94.1	19237 Tireman	4		LC
14		BS	494	146.5	107	8.2	5.9	158.1	92.6	Tireman at Piedmont		2.00	LC
15		BS	501	145.5	101	7.7	5.6	158.1	92.1	19103 Tireman	0	0.00	LC
16		BS	492	146.8	89	6.6	4.7	158.1	92.9	19001 Tireman		4.00	LC
17		BS	481	148.4	90	6.7	4.7	158.1	93.8	Tireman at Stahelin	2		LC
18		BS	498	146	88	6.5	4.6	158.1	92.3	Tireman at Brace	5		LC
19		BS	493	146.7	95	7.1	5.1	158.1	92.8	Tireman at Faust		2.00	LC
20		BS	490	147	107	8.2	5.9	158.1	93	Tireman at Penrod	4		LC
21		BS	484	147.9	99	7.5	5.3	158.1	93.5	Tireman at Rosemont	0	0.00	LC
22		BS	498	146	83	6	4.3	158.1	92.4	Tireman at Southfield		3.00	LC
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		1864	674	
REMARKS:										READING 2		1861	675
										READING 3		1855	674
										READING 4		1874	670
										OPERATING STANDARDS (READING 5)			
										DENSITY		MOISTURE	
										1864		675	
SOMAT FIELD REPRESENTATIVE: Alexander Hinz										DATE: 8/5/2020			
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.										DATE: 8/11/2020			

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