

**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	
23		BS	369	146.9	89	8.5	6.1	158.1	92.9	42.3592, -83.1031	WB1		LC
24		BS	362	148.3	91	8.7	6.2	158.1	93.8	42.3587, -83.1046	WB1		LC
25		BS	355	149.7	88	8.4	5.9	158.1	94.7	42.3583, -83.1058	WB1		LC
26		BS	348	151.1	94	9.1	6.4	158.1	95.6	42.3578, -83.1070	WB1		LC
27		BS	356	149.5	90	8.6	6.1	158.1	94.6	42.3576, -83.1075	WB1		LC
28		BS	350	150.8	86	8.2	5.7	158.1	95.4	42.3574, -83.1082	WB1		LC
29		BS	374	145.9	97	9.4	6.9	158.1	92.3	42.3570, -83.1087	EB1		LC
30		BS	365	147.6	110	10.8	7.9	158.1	93.3	42.3574, -83.1075	EB1		LC
31		BS	358	149	101	9.8	7.1	158.1	94.3	42.3575, -83.1070	EB1		LC
32		BS	373	146	111	11	8.1	158.1	92.3	42.3580, -83.1058	EB1		LC
33		BS	364	147.8	105	10.3	7.5	158.1	93.5	42.3583, -83.1049	EB1		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%			READING 1		1442	539	
			TMD/Gmm 92.0% - 97.0%			X TMD/Gmm 92.0% - 98.0%							
REMARKS:										READING 2		544	
Mix = 4E3, TMD = 158.1, on W Grand Blv starting at linwood ending at Grand River										READING 3		545	
EB1 = East bound Line 1(First lane from center) EB2 = East bound Line 2(second lane from center) WB1 = West bound Line 1(First lane from center) WB1 = West bound Line 2(second lane from center)										READING 4		560	
										OPERATING STANDARDS (READING 5)			
										DENSITY		MOISTURE	
										1446		542	
SOMAT FIELD REPRESENTATIVE:					San Rofoo					DATE: 7/15/2020			
SOMAT PROJECT MANAGER(s):					Steve Drummond, P.E.					DATE: 7/17/2020			

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