



Somat Engineering, Inc.

26445 Northline Rd, Taylor, MI 48180
Tel: 734-946-4966 Fax: 734-946-1147

ASTM D2950

REPORT NUMBER: 018 SHEET: 2 OF 2

ASPHALT DENSITY DETERMINATION REPORT

DATE: 8/11/2020

JOB NUMBER: 2020073E (PW-7018)

PROJECT NAME: HMA Mill & Resurfacing 2020

LOCATION: Detroit, MI

GAUGE NUMBER: 10959

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)		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	537	145.1	103	8.8	6.5	156.2	92.8	42.4085, - 83.0584	6		BS
13		BS	512	148.2	89	7.4	5.3	156.2	94.8	42.4083, - 83.0589		5.00	BS
14		BS	530	145.9	95	8	5.8	156.2	93.4	42.4080, - 83.0598	4		BS
15		BS	549	143.7	91	7.6	5.6	156.2	92	42.4073, - 83.0615		2.00	BS
16		BS	541	144.6	95	8	5.9	156.2	92.6	42.4070, - 83.0624	5		BS
17		BS	541	144.6	89	7.4	5.4	156.2	92.6	42.4067, - 83.0633		3.00	BS
18		BS	520	147.2	97	8.2	5.9	156.2	94.2	42.4061, - 83.0648	1		BS
19		BS	534	145.5	93	7.8	5.7	156.2	93.1	42.4045, - 83.0692		6.00	BS
20		BS	548	143.8	87	7.2	5.3	156.2	92.1	42.4043, - 83.0697	3		BS
21		BS	549	143.7	87	7.2	5.3	156.2	92	42.4041, - 83.0702		1.00	BS
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		2135 589		
REMARKS:										READING 2		2144 594	
mix = 5E3 TMD156.2										READING 3		2132 593	
										READING 4		2132 601	
										OPERATING STANDARDS (READING 5)			
										DENSITY		MOISTURE	
										2144		592	
SOMAT FIELD REPRESENTATIVE:					Garrett Hineman					DATE: 8/11/2020			
SOMAT PROJECT MANAGER(s):					Steve Drummond, P.E.					DATE: 8/18/2020			

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