



Somat Engineering, Inc.

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

ASTM D2950

REPORT NUMBER: 010 SHEET: 2 OF 2

ASPHALT DENSITY DETERMINATION REPORT

DATE: 7/30/2020

JOB NUMBER: 2020073E (PW-7018)

PROJECT NAME: HMA Mill & Resurfacing 2020

LOCATION: Detroit, MI

GAUGE NUMBER: 15829

CLIENT: CoD/WSP

OWNER: City of Detroit (CoD)

CONTRACTOR: Ajax

PROJECT ENGINEER: Jason Lukasik, P.E.

WEATHER: Fair

TEST PERFORMED ON:		X	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	480	145.8	118	8.4	6.1	156.2	93.3	42.4296, - 83.1609	5		BT	
13		BS	479	145.9	118	8.4	6.1	156.2	93.4	42.4291, - 83.1609		3.00	BT	
14		BS	474	146.6	133	9.7	7.1	156.2	93.8	42.4285, - 83.1609	2		BT	
15		BS	474	146.7	115	8.2	5.9	156.2	93.9	42.4347, - 83.1611	9		BT	
16		BS	485	145	126	9.1	6.7	156.2	92.8	42.4336, - 83.1610	8		BT	
17		BS	460	148.7	129	9.4	6.7	156.2	95.2	42.4324, - 83.1610	13		BT	
18		BS	482	145.4	126	9.1	6.7	156.2	93.1	42.4304, - 83.1609	11		BT	
19		BS	489	144.5	120	8.6	6.3	156.2	92.5	42.4296, - 83.1609	12		BT	
20		BS	488	144.6	118	8.4	6.2	156.2	92.6	42.4291, - 83.1609	10		BT	
21		BS	483	145.4	108	7.6	5.5	156.2	93.1	42.4285, - 83.1609	8		BT	
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		1841 706	
REMARKS:										READING 2		1830 705		
										READING 3		1840 706		
										READING 4		1840 706		
										OPERATING STANDARDS (READING 5)				
										DENSITY		MOISTURE		
										1829		701		
SOMAT FIELD REPRESENTATIVE: Garrett Hineman										DATE: 7/30/2020				
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.										DATE: 8/5/2020				

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