



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 011 SHEET: 1 OF 3

ASPHALT DENSITY DETERMINATION REPORT

DATE: 7/31/2020

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			
1		BS	484	145.2	120	8.6	6.3	156.2	93	42.4242, - 83.1607	12		BT		
2		BS	467	147.7	117	8.3	6	156.2	94.6	42.4240, - 83.1607	10		BT		
3		BS	465	148	124	8.9	6.4	156.2	94.7	42.4229, - 83.1606	8		BT		
4		BS	478	146.1	123	8.8	6.4	156.2	93.5	42.4232, - 83.1607	13		BT		
5		BS	493	143.9	128	9.3	6.9	156.2	92.1	42.4216, - 83.1606	15		BT		
6		BS	483	145.3	129	9.3	6.9	156.2	93	42.4205, - 83.1605	9		BT		
7		BS	490	144.3	127	9.2	6.8	156.2	92.4	42.4190, - 83.1604	11		BT		
8		BS	477	146.2	131	9.5	7	156.2	93.6	42.4177, - 83.1603	14		BT		
9		BS	464	148.1	127	9.2	6.6	156.2	94.8	42.4170, - 83.1603	16		BT		
10		BS	470	147.2	128	9.3	6.7	156.2	94.2	42.4242, -83.1607		2.00	BT		
11		BS	460	148.8	114	8.1	5.7	156.2	95.3	42.4240, - 83.1607	4		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		701		
REMARKS:										READING 2		1830		705	
										READING 3		1827		705	
										READING 4		1820		700	
										OPERATING STANDARDS (READING 5)					
										DENSITY		MOISTURE			
										1830		703			
SOMAT FIELD REPRESENTATIVE: Garrett Hineman										DATE: 7/31/2020					
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.										DATE: 8/5/2020					

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