



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 007 SHEET: 1 OF 4

ASPHALT DENSITY DETERMINATION REPORT

DATE: 7/24/2020

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:		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	450	150.9	97	6.5	4.5	158.4	95.3	42.3500, - 83.0774		14.00	BL
2		BS	448	151.2	122	8.6	6	158.4	95.4	42.3504, - 83.0759		18.00	BL
3		BS	452	150.6	107	7.4	5.1	158.4	95	42.3508, - 83.0745		13.00	BL
4		BS	452	150.6	113	7.9	5.5	158.4	95	42.3510, - 83.0740		15.00	BL
5		BS	449	151	120	8.5	5.9	158.4	95.3	42.3514, - 83.0727		19.00	BL
6		BS	485	145.7	90	5.9	4.2	158.4	92	42.3500, - 83.0774	1		BL
7		BS	461	149.2	101	6.9	4.8	158.4	94.2	42.3504, - 83.0759		3.00	BL
8		BS	465	148.7	85	5.5	3.8	158.4	93.8	42.3508, - 83.0745	4		BL
9		BS	462	149.1	88	5.8	4	158.4	94.1	42.3510, - 83.0740		2.00	BL
10		BS	462	149	105	7.2	5.1	158.4	94.1	42.3514, - 83.0727	5		BL
11		BS	453	150.5	96	6.4	4.5	158.4	95	42.3518, - 83.0716		14.00	BL
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%			TMD/Gmm 92.0% - 98.0%			READING 1		1849 702		
REMARKS: 4 lines done today.										READING 2		1828 704	
										READING 3		1826 701	
										READING 4		1831 704	
										OPERATING STANDARDS (READING 5)			
										DENSITY		MOISTURE	
										1843		711	
SOMAT FIELD REPRESENTATIVE:					Garrett Hineman					DATE: 7/24/2020			
SOMAT PROJECT MANAGER(s):					Steve Drummond, P.E.					DATE: 7/30/2020			

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