



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 007 SHEET: 3 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)	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	482	146.1	107	7.4	5.3	158.4	92.2	42.3523, - 83.0698		4.00	BL
24		BS	477	146.9	89	5.9	4.1	158.4	92.7	42.3530, - 83.0677	4		BL
25		BS	467	148.3	108	7.5	5.3	158.4	93.6	42.3532, - 83.0669		5.00	BL
26		BS	461	149.2	111	7.7	5.4	158.4	94.2	42.3540, - 83.0647	3		BL
27		BS	474	147.2	118	8.3	6	158.4	92.9	42.3545, - 83.0635		6.00	BL
28		BS	456	149.9	117	8.2	5.8	158.4	94.6	42.3548, - 83.0628	1		BL
29		BS	482	146.1	94	6.3	4.5	158.4	92.2	42.3552, - 83.0619		2.00	BL
30		BS	464	148.7	119	8.4	6	158.4	93.8	42.3557, - 83.0608	3		BL
31		BS	466	148.4	103	7	5	158.4	93.7	42.3500, - 83.0774		13.00	BL
32		BS	461	149.2	94	6.3	4.4	158.4	94.2	42.3504, - 83.0759		14.00	BL
33		BS	458	149.6	109	7.5	5.3	158.4	94.5	42.3508, - 83.0745		15.00	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		702		
REMARKS:										READING 2		704	
										READING 3		701	
										READING 4		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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