



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 016 SHEET: 1 OF 2

ASPHALT DENSITY DETERMINATION REPORT

DATE: 8/7/2020

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: 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	
1		BS	523	146.6	84	7	5	158.4	92.5	42.3501, - 82.2447		6.00	BL
2		BS	524	146.4	94	8	5.7	158.4	92.4	42.3502, - 82.2427	7		BL
3		BS	508	148.4	85	7.1	5	158.4	93.7	42.3502, - 83.2416		9.00	BL
4		BS	488	150.9	105	9.1	6.4	158.4	95.2	42.3502, - 83.2404	1		BL
5		BS	499	149.5	99	8.5	6	158.4	94.4	42.3502, - 83.2393		3.00	BL
6		BS	526	146.2	83	6.9	4.9	158.4	92.3	42.3503, - 83.2381	6		BL
7		BS	517	147.3	88	7.4	5.2	158.4	93	42.3504, - 83.2344		10.00	BL
8		BS	525	146.3	94	8	5.7	158.4	92.3	42.3504, - 83.2369	4		BL
9		BS	524	146.4	94	8	5.7	158.4	92.4	42.3504, - 83.2381		5.00	BL
10		BS	524	146.4	89	7.5	5.4	158.4	92.4	42.3503, - 83.2393	8		BL
11		BS	510	148.1	93	7.9	5.6	158.4	93.5	42.3503, - 83.2406		2.00	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%			X TMD/Gmm 92.0% - 98.0%			READING 1		2169 593		
REMARKS:										READING 2		2142 591	
4E3= mix										READING 3		2156 592	
										READING 4		2139 591	
										OPERATING STANDARDS (READING 5)			
										DENSITY		MOISTURE	
										2135		589	
SOMAT FIELD REPRESENTATIVE: Garrett Hineman										DATE: 8/7/2020			
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.										DATE: 8/12/2020			

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