



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 024 SHEET: 1 OF 2

ASPHALT DENSITY DETERMINATION REPORT

DATE: 9/3/2020

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:		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	533	146.4	94	7.9	5.7	156.6	93.5	42.4224, - 83.1607		5.00	BT		
2		BS	517	148.3	92	7.7	5.4	156.6	94.7	42.4206, - 83.1605	8		BT		
3		BS	530	146.8	83	6.8	4.8	156.6	93.7	42.4187, - 83.1604		6.00	BT		
4		BS	512	149	93	7.8	5.5	156.6	95.1	42.4187, - 83.1604	6		BT		
5		BS	568	142.3	86	7.1	5.2	156.6	90.9	42.4206, - 83.1605		4.00	BT		
9/3/2020	5	BS	527	147.2	86	7.1	5	156.6	93.9	42.4206, - 83.1605		5.00	BT		
6		BS	528	147	89	7.4	5.3	156.6	93.9	42.4224, - 83.1606	4		BT		
7		BS	534	146.2	99	8.4	6.1	156.6	93.4	42.4332, - 83.1610		3.00	BT		
8		BS	552	144.2	80	6.5	4.7	156.6	92.1	42.4383, - 83.1612	10		BT		
9		BS	502	150.2	87	7.2	5	156.6	95.9	42.4409, - 83.1613		6.00	BT		
10		BS	521	147.9	85	7	4.9	156.6	94.4	42.4432, - 83.1613	2		BT		
MAXIMUM DETERMINATION (LAB)										PRESCALE					
NOTE: Gmb to Marshall conversion is $Gmb \times 62.4 \text{ (PCF)} = \text{MARSHALL (PCF)}$										16		16			
NOTE: Gmm to TMD conversion is $Gmm \times 62.4 \text{ (PCF)} = \text{TMD (PCF)}$										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%					2160		592		
REMARKS:										READING 1		2160		592	
MIX = 5E3 Tests 1, 2, and 3 were approaches done on the NB side and 4 through 10 were done on the SB										READING 2		2171		593	
										READING 3		2175		595	
										READING 4		2175		593	
										OPERATING STANDARDS (READING 5)					
										DENSITY		MOISTURE			
		2171		594											
SOMAT FIELD REPRESENTATIVE:					Garrett Hineman					DATE:		9/3/2020			
SOMAT PROJECT MANAGER(s):					Steve Drummond, P.E.					DATE:		9/4/2020			

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