



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 023 SHEET: 2 OF 3

ASPHALT DENSITY DETERMINATION REPORT

DATE: 9/2/2020

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			
12		BS	533	146.1	90	7.5	5.4	156.6	93.3	42.4204, - 83.1605		6.00	BT		
13		BS	526	146.9	99	8.4	6.1	156.6	93.8	42.4193, - 83.1604	3		BT		
14		BS	543	144.9	96	8.1	5.9	156.6	92.5	42.4178, - 83.1604		5.00	BT		
15		BS	529	146.5	103	8.8	6.4	156.6	93.5	42.4247, - 83.1607		13.00	BT		
16		BS	516	148.2	82	6.7	4.7	156.6	94.6	42.4241, - 83.1607		9.00	BT		
17		BS	533	146.1	96	8.1	5.9	156.6	93.2	42.4230, - 83.1606		11.00	BT		
18		BS	502	149.8	106	9.1	6.5	156.6	95.7	42.4217, - 83.1606		16.00	BT		
19		BS	510	148.8	102	8.7	6.2	156.6	95	42.4204, - 83.1605		8.00	BT		
20		BS	507	149.3	90	7.5	5.3	156.6	95.3	42.4193, - 83.1604		12.00	BT		
21		BS	513	148.5	95	8	5.7	156.6	94.8	42.4178, - 83.1604		10.00	BT		
22		BS	567	142.1	79	6.4	4.7	156.6	90.7	42.4178, - 83.1604	6		BT		
MAXIMUM DETERMINATION (LAB)											PRESCALE				
NOTE: Gmb to Marshall conversion is $Gmb * 62.4 (PCF) = MARSHALL (PCF)$											16				
NOTE: Gmm to TMD conversion is $Gmm * 62.4 (PCF) = TMD (PCF)$											16				
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			591			
REMARKS:											READING 2			593	
MIX SE3 Tests #22 through #30 were done on approachments.											READING 3			598	
											READING 4			588	
											OPERATING STANDARDS (READING 5)				
											DENSITY			MOISTURE	
											2160			592	
SOMAT FIELD REPRESENTATIVE: Garrett Hineman					DATE: 9/2/2020										
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.					DATE: 9/4/2020										

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