



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 202 SHEET: 1 OF 3

ASPHALT DENSITY DETERMINATION REPORT

DATE: 11/3/2020

JOB NUMBER: 2019057D-002 (PW-7023)

PROJECT NAME: Conner Improvements

LOCATION: Detroit, MI

GAUGE NUMBER: 2127

CLIENT: AECOM

OWNER: City of Detroit

CONTRACTOR: Ajax

PROJECT ENGINEER: Alan Ostrowski, P.E.

WEATHER: Sunny

TEST PERFORMED ON:		WEARING COURSE (WC)		LEVELING COURSE (LC)		X		BASE COURSE (BC)		OTHER				
STRUCTURE: Mainline														
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	741	146.1	71	9.2	6.7	158.1	92.4	42.3833, -82.9675		29.00	BC	
2		BS	742	146.1	57	7.2	5.2	158.1	92.4	42.3822, -82.9668		32.00	BC	
3		BS	729	147.3	67	8.7	6.2	158.1	93.2	42.3811, -82.9661		35.00	BC	
4		BS	722	148.1	62	7.9	5.7	158.1	93.7	42.3801, -82.9654		31.00	BC	
5		BS	710	149.3	63	8.1	5.7	158.1	94.4	42.3835, -82.9678	29		BC	
6		BS	696	150.8	65	8.4	5.9	158.1	95.4	42.3824, -82.9670	32		BC	
7		BS	706	149.7	60	7.6	5.4	158.1	94.7	42.3815, -82.9663	28		BC	
8		BS	745	145.8	58	7.4	5.3	158.1	92.2	42.3804, -82.9656	31		BC	
9		BS	716	148.7	63	8.1	5.7	158.1	94	42.3792, -82.9648	33		BC	
10		BS	729	147.4	60	7.6	5.5	158.1	93.2	42.3835, -82.9677		18.00	BC	
11		BS	721	148.2	62	7.9	5.7	158.1	93.7	42.3823, -82.9667		23.00	BC	
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		2761 419	
REMARKS:										READING 2		2745 417		
										READING 3		2766 414		
										READING 4		2766 417		
										OPERATING STANDARDS (READING 5)				
										DENSITY		MOISTURE		
										2766		418		
SOMAT FIELD REPRESENTATIVE: Ryan Castillo										DATE: 11/3/2020				
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.										DATE: 11/4/2020				

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