

DENSITY & MOISTURE DETERMINATION REPORT

DATE: 6/24/2021

JOB NUMBER: 2020073D (PW-7017)

PROJECT NAME: Grand Parklet Streetscape

LOCATION: Detroit, MI

GAUGE NUMBER: 15829

CLIENT: WSP

OWNER: City of Detroit

CONTRACTOR: Major Cement

PROJECT ENGINEER: Jason Lukasik, P.E.

WEATHER: overcast, rainy

TEST PERFORMED ON:		X	SUBGRADE		SUBBASE		AGGREGATE BASE		BACKFILL		OTHER			
STRUCTURE: Plaza Slab + Puritan Ave roadway														
TEST			WET DENSITY		MOISTURE			DRY DENSITY			TEST LOCATION			
ORIGINAL	RETEST	DEPTH	DENSITY COUNTS	WET DENSITY	MOIST. COUNTS	MOIST.	MOIST.	DRY DENSITY	MAX DENSITY	COMPACT.	STATIONING/LOCATION	OFFSET OF CL (FT)		DBG (FT)
		INCH	DC	PCF	MC	PCF	%	PCF	PCF	%		LEFT	RIGHT	
1		4	1847	135.7	187	13.5	11.1	NA	140.5	96.6	42.4079855, -83.2371248	NA	NA	0.5
2		4	1985	132.0	182	13.1	11.1	NA	140.5	93.9	42.4079140, -83.2368914	NA	NA	0.5
6/24/2021	2	4	1910	134.0	188	13.6	11.3	NA	140.5	95.4	42.4079140, -83.2368914	NA	NA	0.5
3		4	1992	131.8	187	13.5	11.4	NA	140.5	93.8	42.4080023, -83.2369776	NA	NA	0.5
6/24/2021	3	4	1850	135.6	205	15.0	12.4	NA	140.5	96.5	42.4080023, -83.2369776	NA	NA	0.5
MAXIMUM DETERMINATION (FIELD) NOTE: To convert (g) to (lbs): Wt (g) / 453.59 = Wt. (lbs)											STANDARDIZATION			
TEST NUMBER	MOISTURE %	MOLD VOLUME (CFT)	WET SOIL + MOLD (g)	MOLD (g)	WET SOIL (g)	WET SOIL (lbs)	COMPACTED WET SOIL PCF	MAX DENSITY	OPTIMUM MOISTURE %	MATERIAL	READING 1	DENSITY	MOISTURE	
1	11.1	0.0333	4336	2214	2122	4.68	140.5	140.5	9.6-12.6	21AA	READING 2	1873	735	
											READING 3	1863	730	
											READING 4	1865	735	
											OPERATING STANDARD (READING 5)			
											DENSITY	MOISTURE		
											1875	736		
MIN. COMPACTION REQUIRED:					100.0%			98.0%	X	95.0%		90.0%		OTHER
MAXIMUM DRY DENSITY BY:					MICH. CONE			D1557		T-99	X	T-180		OTHER
REMARKS:														
NA														
SOMAT FIELD REPRESENTATIVE: Brandon Smith											DATE: 6/24/2021			
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.											DATE: 6/25/2021			

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