

DENSITY & MOISTURE DETERMINATION REPORT

DATE: 9/18/2020

JOB NUMBER: 2019057B

PROJECT NAME: Kercheval Streetscape(PW-7005)

LOCATION: Detroit, MI

GAUGE NUMBER: 33531

CLIENT: AECOM & City of Detroit

OWNER: City of Detroit (Public Works)

CONTRACTOR: Major Concrete

PROJECT ENGINEER: Allen Ostrowski (AECOM)

WEATHER: Clear

TEST PERFORMED ON:				SUBGRADE		SUBBASE		AGGREGATE BASE		X BACKFILL		OTHER			
STRUCTURE: 21AA backfill for drainage structures.															
TEST			WET DENSITY		MOISTURE			DRY DENSITY			TEST LOCATION				
ORIG.	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	2840	115.9	117	10.4	9.9	105.5	114.1	92.4	34+50		28.0		1
MAXIMUM DETERMINATION (FIELD) NOTE: To convert (g) to (lbs): Wt (g) / 453.59 = Wt. (lbs)											STANDARDIZATION				
TEST #	MOIST. %	MOLD VOL. (CFT)	WET SOIL + MOLD (g)	MOLD (g)	WET SOIL (g)	WET SOIL (lbs)	COMPACTED WET SOIL PCF	MAX DENSITY	OPTIMUM MOIST. %	MATERIAL		DENSITY	MOISTURE		
											READING 1	1926	601		
1	9.9	0.0447	4420	1890	2530	5.58	124.8	114.1	13.7	21AA	READING 2	1918	598		
											READING 3	1940	604		
											READING 4	1917	600		
											OPERATING STANDARD (READING 5)				
											DENSITY		MOISTURE		
											1910		596		
MIN. COMPACTION REQUIRED:					100.0%			98.0%	X	95.0%		90.0%		OTHER	
MAXIMUM DRY DENSITY BY:				X	MICH. CONE			D1557		T-99		T-180		OTHER	
REMARKS:															
SOMAT FIELD REPRESENTATIVE: Cody Cervelli											DATE: 9/18/2020				
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.											DATE: 9/19/2020				

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