

**DENSITY & MOISTURE
DETERMINATION REPORT**

DATE: 11/11/2020

JOB NUMBER: 2019057B

PROJECT NAME: Kercheval Streetscape(PW-7005)

LOCATION: Detroit, MI

GAUGE NUMBER: 2409

CLIENT: AECOM & City of Detroit

OWNER: City of Detroit (Public Works)

CONTRACTOR: Motor City Electric

PROJECT ENGINEER: Allen Ostrowski (AECOM)

WEATHER: Clear

TEST PERFORMED ON:			SUBGRADE		SUBBASE	X	AGGREGATE BASE	X	BACKFILL		OTHER			
STRUCTURE: Recycled Crushed Concrete for Islands at Iroquis & Fischer St.														
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		10	879	132.0	115	13.7	11.6		133.9	98.6	70+10	13.0		1
2		6	2261	134.4	114	13.6	11.2		133.9	100.3	70+50	15.0		0.5
3		10	914	130.7	103	12.2	10.3		133.9	97.6	78+50	12.0		1
4		10	860	132.8	111	13.2	11.0		133.9	99.2	79+12	10.0		1
5		6	2406	131.4	123	14.7	12.6		133.9	98.2	79+30	16.0		0.5
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	READING 1	DENSITY	MOISTURE	
1	11.6	0.0333	4195	2172	2023	4.46	133.9	133.9	10.1-13.1	Recycled Stone	READING 2	2926	476	
											READING 3	2928	470	
											READING 4	2930	471	
											OPERATING STANDARD (READING 5)			
											DENSITY		MOISTURE	
											2935		470	
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:														
SOMAT FIELD REPRESENTATIVE: Cody Cervelli											DATE: 11/11/2020			
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.											DATE: 11/12/2020			

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