



ASTM D6938

REPORT NUMBER: 201 SHEET: 1 OF 1

DENSITY & MOISTURE DETERMINATION REPORT

DATE: 7/18/2020

JOB NUMBER: 2019057B

PROJECT NAME: Kercheval Streetscape(PW-7005)

LOCATION: Detroit, MI

GAUGE NUMBER: 27260

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		AGGREGATE BASE			X	BACKFILL		OTHER		
STRUCTURE:			Class II Sand backfill for electrical wires.												
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		8	1416	114.2	110	8.5	8.0	105.7	110.9	95.3	41+50			35.0	2.5
2		12	511	113.3	72	5.1	4.7	108.2	110.9	97.6	42+25			35.0	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	1783	670		
1	8	0.0447	4304	1890	2414	5.32	119.1	110.9	14.8	Class II	READING 2	1774	666		
											READING 3	1781	664		
											READING 4	1771	664		
											OPERATING STANDARD (READING 5)				
											DENSITY	MOISTURE			
											1773		667		
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:															
Tests were done on Class II sand backfill for electrical.															
SOMAT FIELD REPRESENTATIVE:											Cody Cervelli				
SOMAT PROJECT MANAGER(s):											Steve Drummond, P.E.				
											DATE: 7/18/2020				
											DATE: 7/27/2020				