

DENSITY & MOISTURE DETERMINATION REPORT

DATE: 6/23/2021

JOB NUMBER: 2019057B

PROJECT NAME: Kercheval Streetscape (PW 7005)

LOCATION: Detroit, Mi

GAUGE NUMBER: 2407

CLIENT: AECOM

OWNER: City of Detroit

CONTRACTOR: Major

PROJECT ENGINEER: Richard Anderson

WEATHER: clear

TEST PERFORMED ON:			SUBGRADE		x	SUBBASE		x	AGGREGATE BASE			BACKFILL			OTHER			
STRUCTURE:																		
TEST			WET DENSITY		MOISTURE			DRY DENSITY			TEST LOCATION							
ORIGINAL	RETEST	DEPT H	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"	3960	120.3	78	10.4	9.4		128.0	94.0	Agg base for curb/gutter on Kercheval				0.7			
6/23/2021	1	4"	3800	122.6	88	11.8	10.7		128.0	95.8	Agg base for curb/gutter on Kercheval				0.7			
2		8"	1616	130.4	101	13.7	11.7	116.7	119.4	97.8	Subgrade along Kercheval for sidewalk				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	9.4	0.0334	4123	2184	1939	4.27	128.0	128.0	7.9-10.9	21aa rec	READING 2	3135	420					
2	11.7	0.0334	4175	2184	1991	4.39	131.4	119.4	12.9	clay	READING 3	3124	412					
					0	0.00					READING 4	3124	420					
					0	0.00					OPERATING STANDARD (READING 5)							
					0	0.00					DENSITY		MOISTURE					
					0	0.00					3143		421					
MIN. COMPACTION REQUIRED:					100.0%			98.0%	x	95.0%		90.0%		OTHER				
MAXIMUM DRY DENSITY BY:					MICH. CONE			D1557	x	T-99	x	T-180		OTHER				
REMARKS:																		
Test 1= 21AA rec. Agg base for curb and gutter along Kercheval inbetween Parker and Van Dyke Test 2= Existing material (clay mix) for sidewalk along kercheval inbtween Parker & Van Dyke																		
SOMAT FIELD REPRESENTATIVE:												Nick Suchy				DATE:		6/23/2021
SOMAT PROJECT MANAGER(s):												Steve Drummond, P.E.				DATE:		6/24/2021

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