

DENSITY & MOISTURE DETERMINATION REPORT

DATE: 9/3/2019

JOB NUMBER: 2019057C (PW-7007)

PROJECT NAME: Bagley Streetscape

LOCATION: Detroit, MI

GAUGE NUMBER: 23944

CLIENT: AECOM

OWNER: City of Detroit Public Works

CONTRACTOR: Major

PROJECT ENGINEER: Alan Ostrowski (AECOM)

WEATHER: Sunny

TEST PERFORMED ON:					SUBGRADE				SUBBASE		X		AGGREGATE BASE				BACKFILL				OTHER			
STRUCTURE:			Mainline on Bagley West of Fisher FWY																					
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		2	1942	128.8	81	6.3	5.1	122.5	128.6	95.2	Bagley between La Gloria and Galanes			6.0		0.8								
2		2	1920	129.5	62	4.5	3.6	125.1	128.6	97.3	Bagley between La Gloria and Galanes				4.0	0.8								
3		2	1809	133.0	74	5.6	4.4	127.4	128.6	99.1	Bagley between La Gloria and Galanes			2.0		0.8								
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	1847	631											
1	5.1	0.0454	4754	2010	2744	6.05	133.2	128.6	9.5	4G	READING 2	1828	627											
											READING 3	1847	622											
											READING 4	1837	622											
											OPERATING STANDARD (READING 5)													
											DENSITY		MOISTURE											
											1823		622											
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:										Andrew Lee				DATE: 9/3/2019										
SOMAT PROJECT MANAGER(s):										Steve Drummond				DATE: 9/4/2019										

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