



Somat Engineering, Inc.

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ASTM D6938

REPORT NUMBER: 201 SHEET: 1 OF 1

DENSITY & MOISTURE DETERMINATION REPORT

DATE: 9/17/2019

JOB NUMBER: 2019057C (PW-7007)

PROJECT NAME: Bagley Streetscape

LOCATION: Detroit, MI

GAUGE NUMBER: 23944

CLIENT: AECOM

OWNER: City of Detroit (CED)

CONTRACTOR: MAJOR

PROJECT ENGINEER: Alan Ostraowski (AECOM)

WEATHER: CLOUDY

TEST PERFORMED ON: SUBGRADE X SUBBASE X AGGREGATE BASE BACKFILL OTHER

STRUCTURE: SUBBASE ON BAGLEY FOR SIDEWALK

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	1040	125.3	107	8.8	7.5	116.5	120.9	96.4	BAGLEY WB FROM 23RD ST		13.0	1
2		8	956	128.7	113	9.3	7.8	119.4	120.9	98.8	BAGLEY WB FROM 23RD ST		13.0	1
3		2	2128	123.1	78	6.0	5.1	117.1	128.3	91.3	BAGLEY WB FROM 23RD ST		13.0	0.8
9-17-2019	3	2	1981	127.4	65	4.7	3.8	122.7	128.3	95.6	BAGLEY WB FROM 23RD ST		13.0	0.8
4		8	1314	115.4	96	7.7	7.1	107.7	109.3	98.6	BAGLEY WB FROM 23RD ST	11.0		1
5		8	1425	112.0	91	7.2	6.9	104.8	109.3	95.9	BAGLEY WB FROM 23RD ST	11.0		1

MAXIMUM DETERMINATION (FIELD) NOTE: To convert (g) to (lbs): Wt (g) / 453.59 = Wt. (lbs)

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	1836	627
1	7.5	0.0454	4668	2010	2658	5.86	129.1	120.9	11.6	EXSISTING SAND AND	READING 2	1831	626
3	5.1	0.0454	4750	2010	2740	6.04	133.1	128.3	9.6	4G	READING 3	1820	630
4	7.1	0.0454	4404	2010	2394	5.28	116.3	109.3	15.4	BROWN SAND	READING 4	1837	632
											OPERATING STANDARD (READING 5)		
											DENSITY		MOISTURE
											1815		625

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: 9/17/2019

SOMAT PROJECT MANAGER(s): Steve Drummond

DATE: 9/18/2019

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