



SOLAR TESTING LABORATORIES, INC.

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July 26, 2019

David Neumeyer, P.E.
The GPD Group
Suite 100
5595 Transportation Boulevard
Garfield Heights, OH 44125

Dear Mr. Neumeyer:

**Subject: Miles Road from Broadway Avenue to Warrensville City Limits
Cleveland, Ohio
STL File No. S019364, Report 001**

On July 25, 2019, Solar Testing Laboratories, Inc. (STL) procured pavement cores for the subject project in accordance with GPD's request.

STL extracted 20, 4-inch-diameter pavement cores to subbase. The lengths and material descriptions are outlined in the Pavement Core Composition Table. This report includes core location maps, photos of each core, and photos of the pavement and core locations.

If you have any questions or require additional information, please do not hesitate to contact me. Thank you for the opportunity to assist you on this project. We look forward to future endeavors.

Sincerely,

SOLAR TESTING LABORATORIES, INC.

Dennis L. Sanderson
Vice President/General Manager

DLS/emmm

Miles Road from Broadway Avenue to
Warrensville City Limits
Cleveland, Ohio

File No.: S019364
Report No.: 001

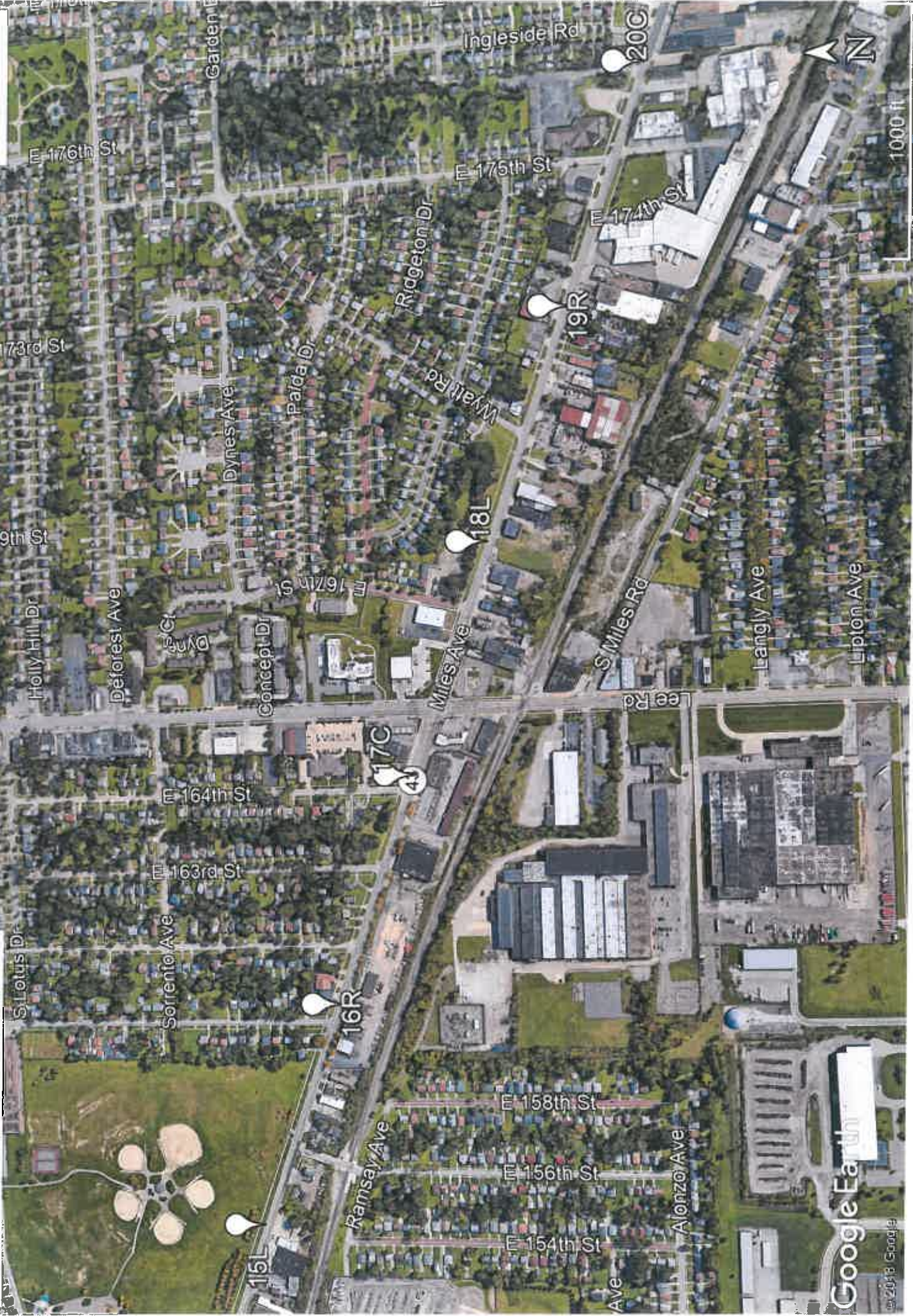


Core Location Maps

Miles Pavement Coring

Legend

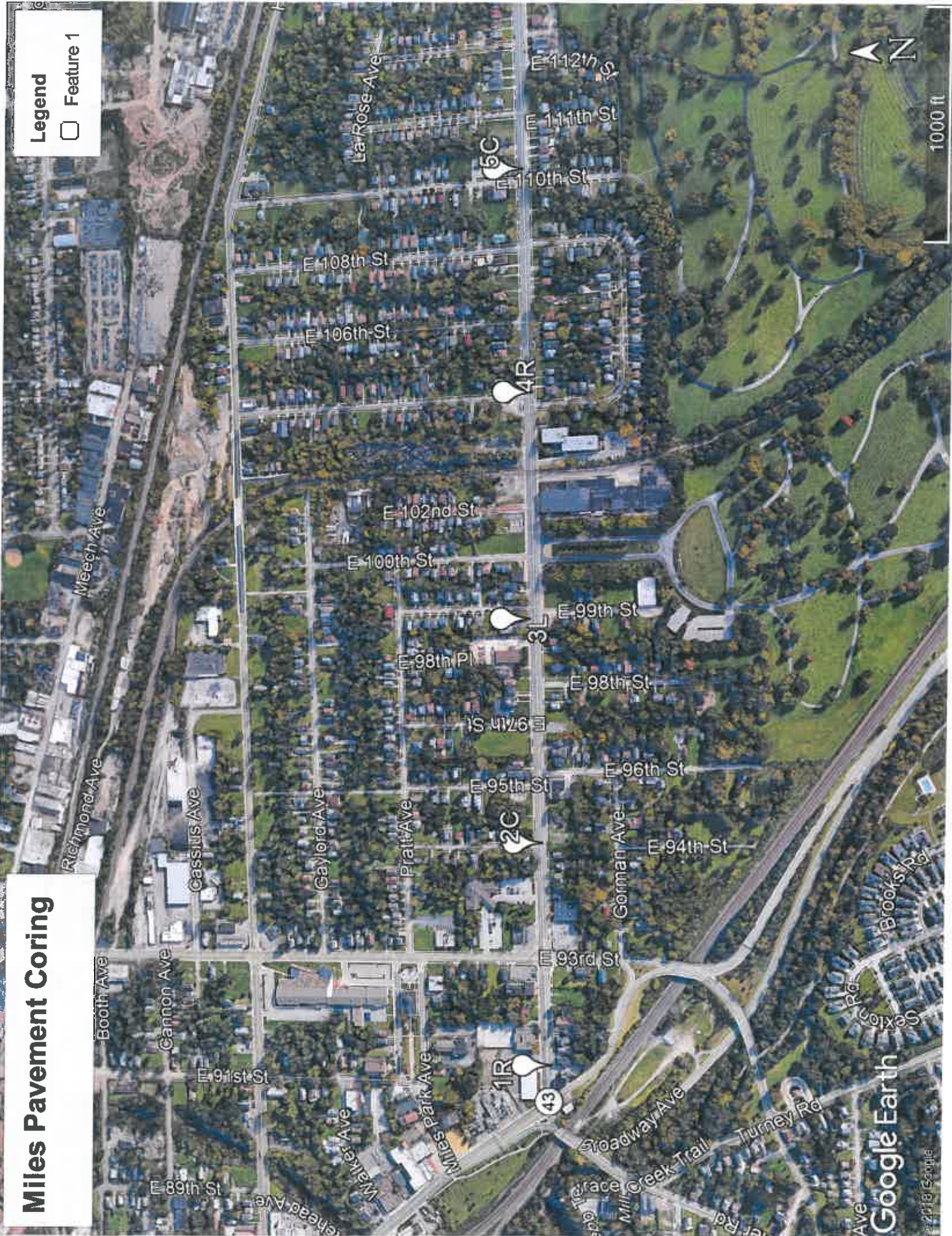
- Feature 1



Miles Pavement Coring

Legend

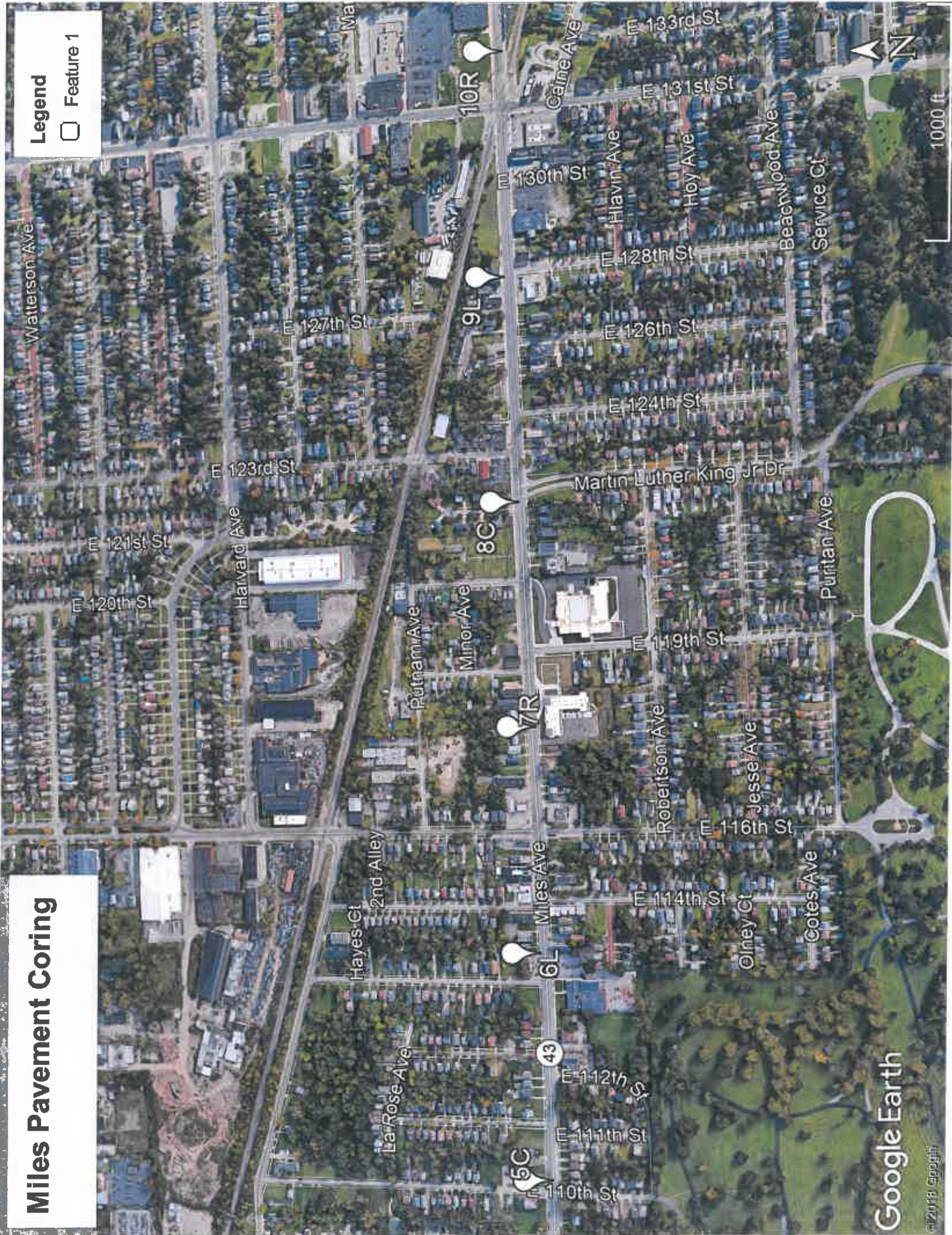
- Feature 1



Miles Pavement Coring

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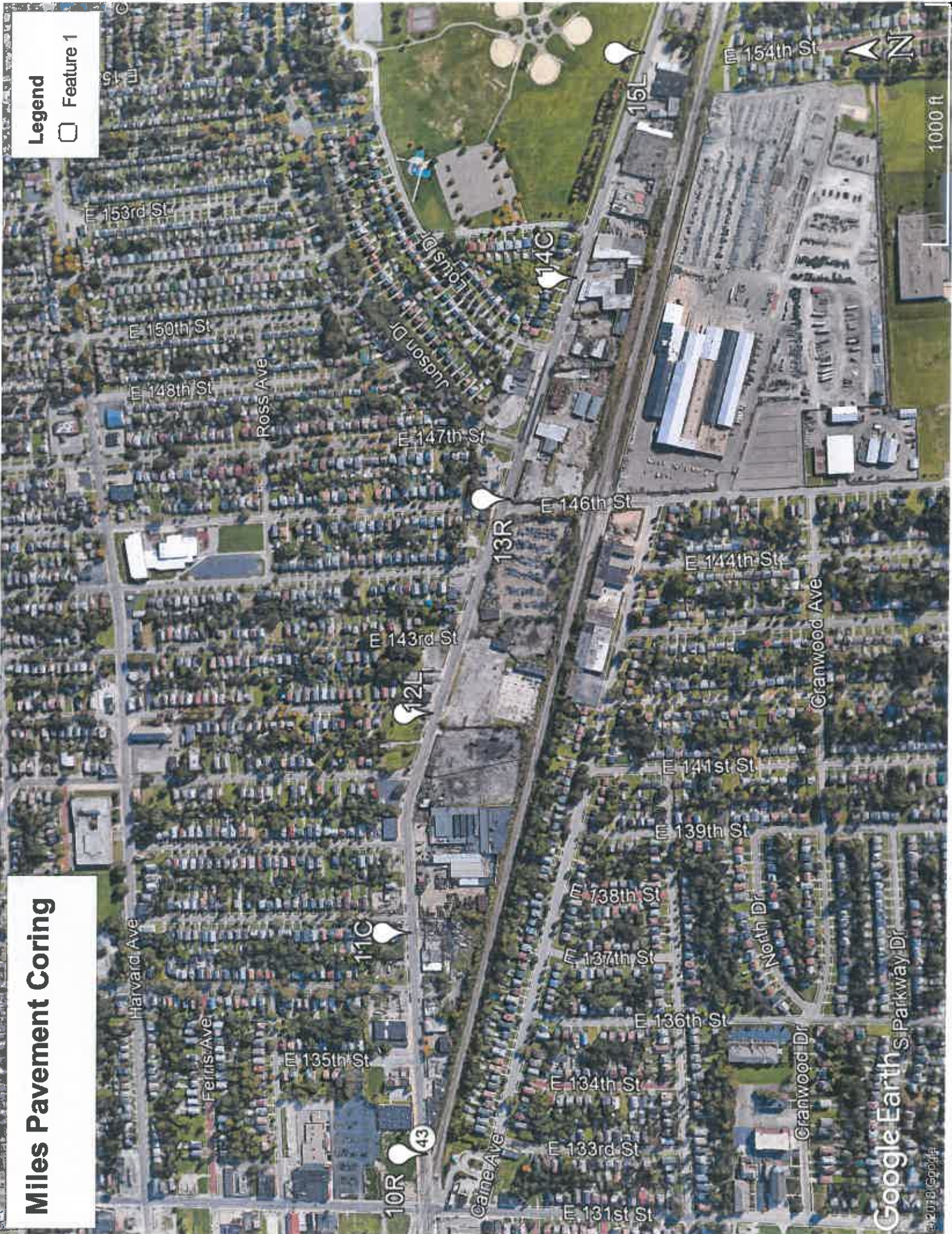
- Feature 1



Miles Pavement Coring

Legend

□ Feature 1



Miles Road from Broadway Avenue to
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Pavement Core Composition Table

Core No.	Actual Length (in)	Description	
		Length (in)	Material Description
1	15.000	1.500	404 Limestone Mix
		2.500	402 Limestone Mix
		3.250	402 Slag Mix
		7.000	Slag Concrete
		0.750	Solidified Slag
		---	Slag Screenings Subbase
2	13.500	2.000	404 Limestone Mix
		2.500	402 Slag Mix
		9.000	Concrete
		---	Brown Sand and Stone Subgrade
3	16.750	1.750	404 Limestone Mix
		3.000	402 Slag Mix
		3.750	Red Brick
		0.760	Solidified Slag
		7.500	Slag Concrete
		---	Limestone Screenings Subbase
4	21.375	3.125	404 Limestone Mix
		4.000	Red Brick
		1.000	Solidified Slag
		8.000	Slag Concrete
		2.250	Sand
		3.000	Solidified Slag
		---	Slag Screenings Subbase
5	13.250	2.00	404 Limestone Mix
		2.250	402 Slag Mix
		9.000	Concrete
		---	Slag Screenings Subbase
6	19.875	2.375	404 Limestone Mix
		2.000	402 Limestone Mix
		3.500	Red Brick
		8.500	Slag Concrete
		3.500	Sand
		---	Brown Silty Clay Subgrade
7	15.750	1.750	404 Limestone Mix
		2.500	402 Limestone Mix
		3.750	Red Brick
		7.750	Slag Concrete
		---	Brown Clay Subgrade
		---	Brown Clay Subgrade
8	14.250	1.750	404 Limestone Mix
		4.000	404 Slag Mix
		8.500	Concrete
		---	Brown Clay Subgrade

Core No.	Actual Length (in)	Description	
		Length (in)	Material Description
9	17.750	1.875	404 Limestone Mix
		2.250	404 Limestone Mix
		3.750	Red Brick
		9.875	Slag Concrete
		---	Mixed Aggregates Subbase
10	8.250	8.250	Concrete
		---	Sand Subbase
11	12.875	2.000	404 Limestone Mix
		2.000	402 Slag Mix
		8.875	Concrete
		---	Slag Screenings Subbase
12	8.250	1.750	404 Limestone Mix
		2.500	402 Slag Mix
		4.000	Red Brick
		---	Crushed Brick Subbase
13	8.500	2.000	404 Limestone Mix
		2.250	404 Slag Mix
		4.000	Red Brick
		---	Slag Screenings Subbase
14	8.625	1.875	404 Limestone Mix
		2.750	402 Slag Mix
		4.000	Red Brick
		---	Slag Screenings Subbase
15	8.000	2.000	404 Limestone Mix
		4.000	Red Brick
		2.000	Solidified Slag
		---	Foundry Sand Subbase
16	9.875	9.875	Concrete, Rebar at 4 inches
		---	Sand Subbase
17	12.500	12.500	Concrete, Rebar at 7 1/4 inches
		---	304 Limestone Subbase
18	9.750	2.000	404 Limestone Mix
		2.500	402 Slag Mix
		4.000	Red Brick
		1.250	Solidified Slag
		---	Slag Screenings Subbase
19	11.500	2.250	404 Limestone Mix
		9.250	Concrete, rebar at 5 inches
		---	Slag Screenings Subbase
20	14.250	1.625	404 Limestone Mix
		1.875	404 Limestone Mix
		1.500	Solidified Slag
		9.250	Slag Concrete
		---	Slag Screenings Subbase

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Photographs of Cores

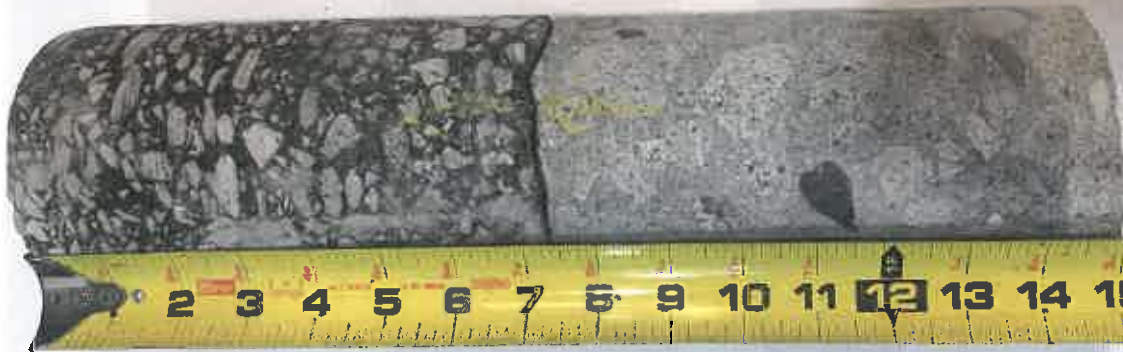


Pavement Investigation from
Broadway to Warrensville City Limits

Task Order #30

File # 5019364

Core#2



Miles Road Pavement Investigation from
Broadway to Warrensville City Limits

Task Order #30

File # 5019364

Core#1

Miles Road Pavement Investigation from
Broadway to Warrensville City Limits

Task Order #30
File # 5019364
Core#4



2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

Miles Road Pavement Investigation from
Broadway to Warrensville City Limits

Task Order #30
File # 5019364
Core#3



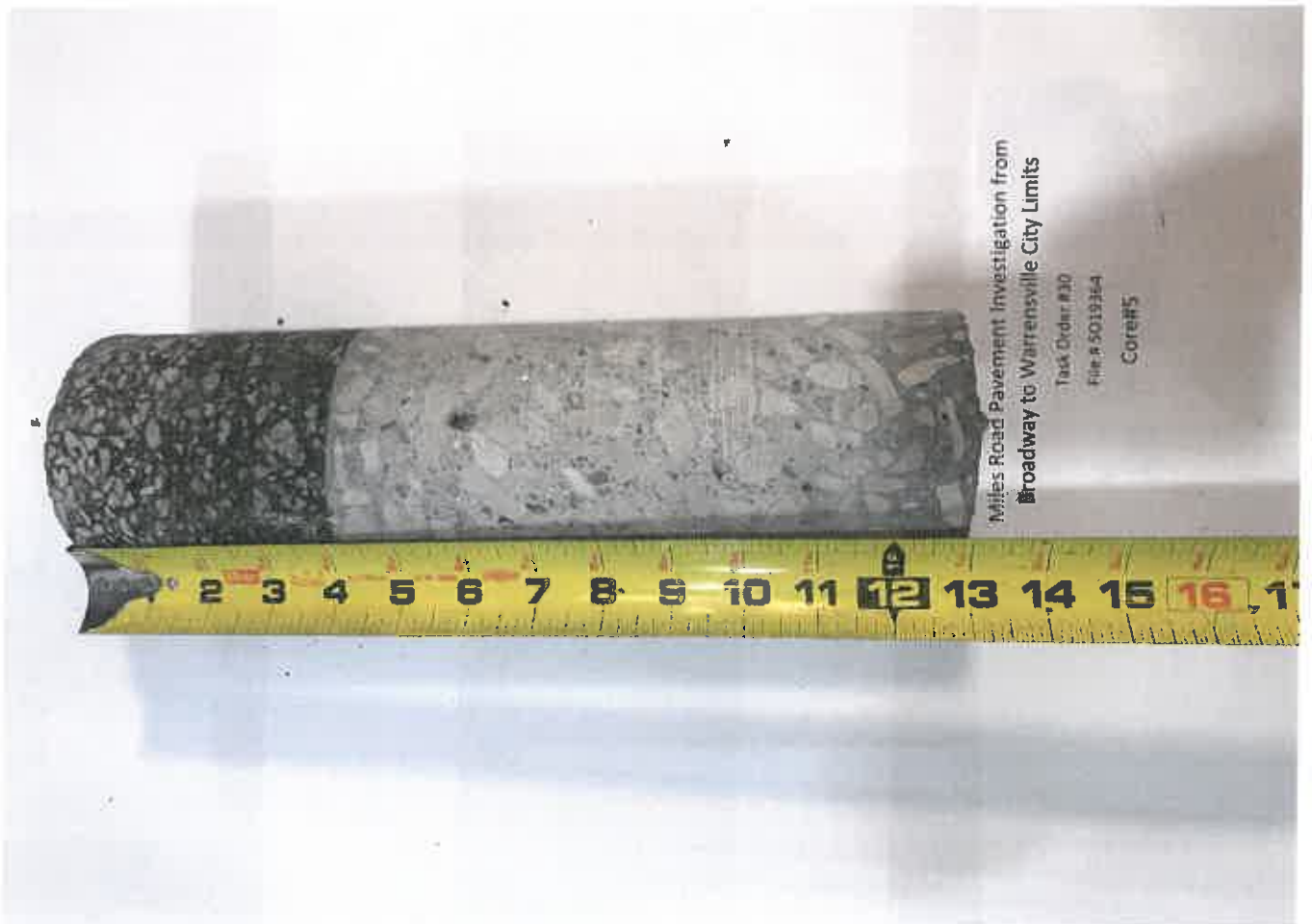
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Miles Road Pavement Investigation from
Broadway to Warrensville City Limits

Task Order #30
File # 5013364

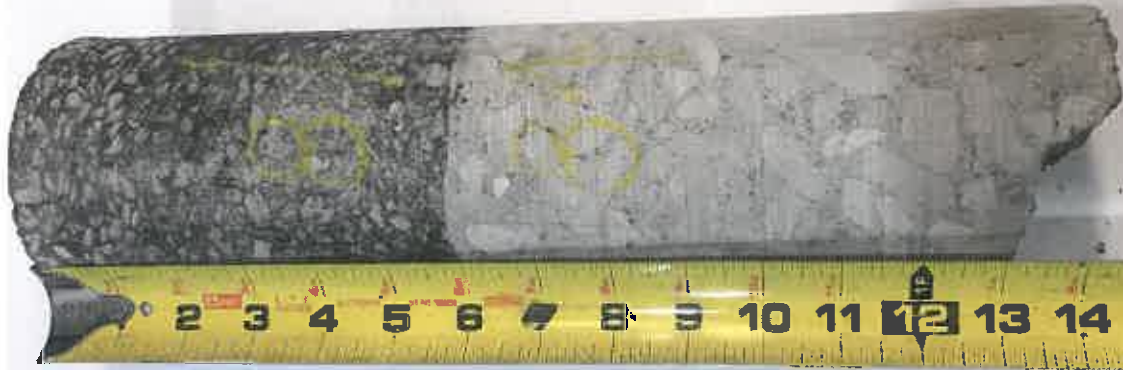
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Miles Road Pavement Investigation from
Broadway to Warrensville City Limits

Task Order #30
File # 5013364

Core#5



Miles Road Pavement Investigation from
Broadway to Warrensville City Limits

Task Order #30

File # 5019364

Core#8

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17



Miles Road Pavement Investigation from
Broadway to Warrensville City Limits

Task Order #30

File # 5019364

Core#7

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

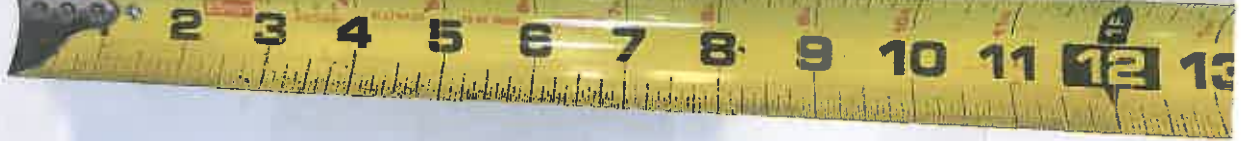


Miles Road Pavement Investigation from
Broadway to Warrensville City Limits

Task Order #30

File # SO19364

Core#10



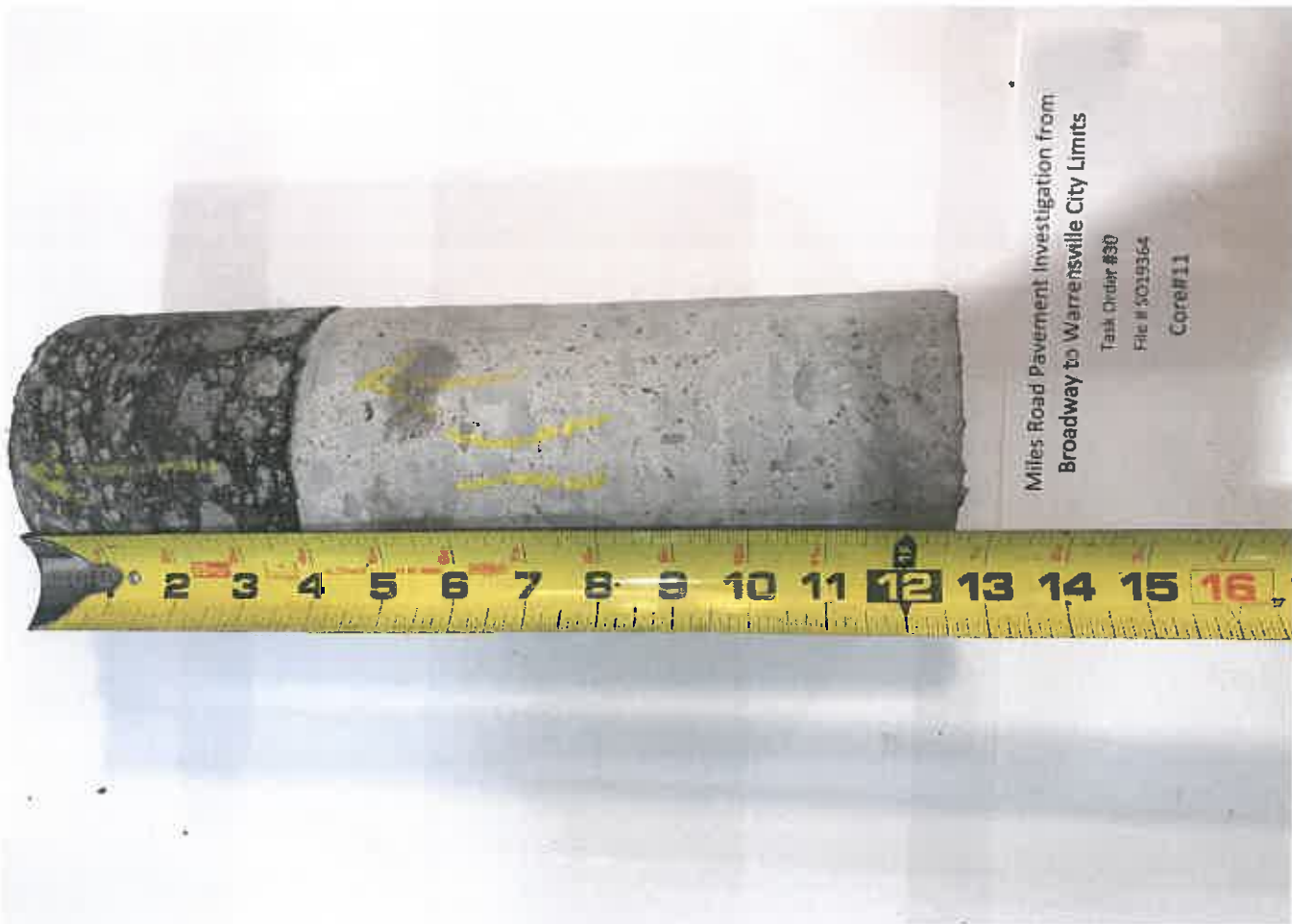
Miles Road Pavement Investigation from
Broadway to Warrensville City Limits

Task Order #30

File # SO19364

Core#9





Miles Road Pavement Investigation from
Broadway to Warrensville City Limits

Task Order #30

File # 5019364

Core #11



Miles Road Pavement Investigation from
Broadway to Warrensville City Limits

Task Order #30

File # 5019364

Core #12



Miles Road Pavement Investigation from
Broadway to Warrensville City Limits

Task Order #30

File # SO19364

Core#14



Miles Road Pavement Investigation from
Broadway to Warrensville City Limits

Task Order #30

File # SO19364

Core#13



Miles Road Pavement Investigation from
Broadway to Warrens ville City Limits

Task Order #30
File # S019364
Core#16



Miles Road Pavement Investigation from
Broadway to Warrens ville City Limits

Task Order #30
File # S019364
Core#15



Miles Road Pavement Investigation from
Broadway to Warrensville City Limits

Task Order #30

File # SO19364

Core#18



Miles Road Pavement Investigation from
Broadway to Warrensville City Limits

Task Order #30

File # SO19364

Core#17



2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

Miles Road Pavement Investigation from
Broadway to Warrensville City Limits

Task Order #30

File # SO19364

Core#20



2 3 4 5 6 7 8 9 10 11 12 13 14

Miles Road Pavement Investigation from
Broadway to Warrensville City Limits


Task Order #30

File # SO19364

Core#19

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Photographs of Pavement



2



1



4



3



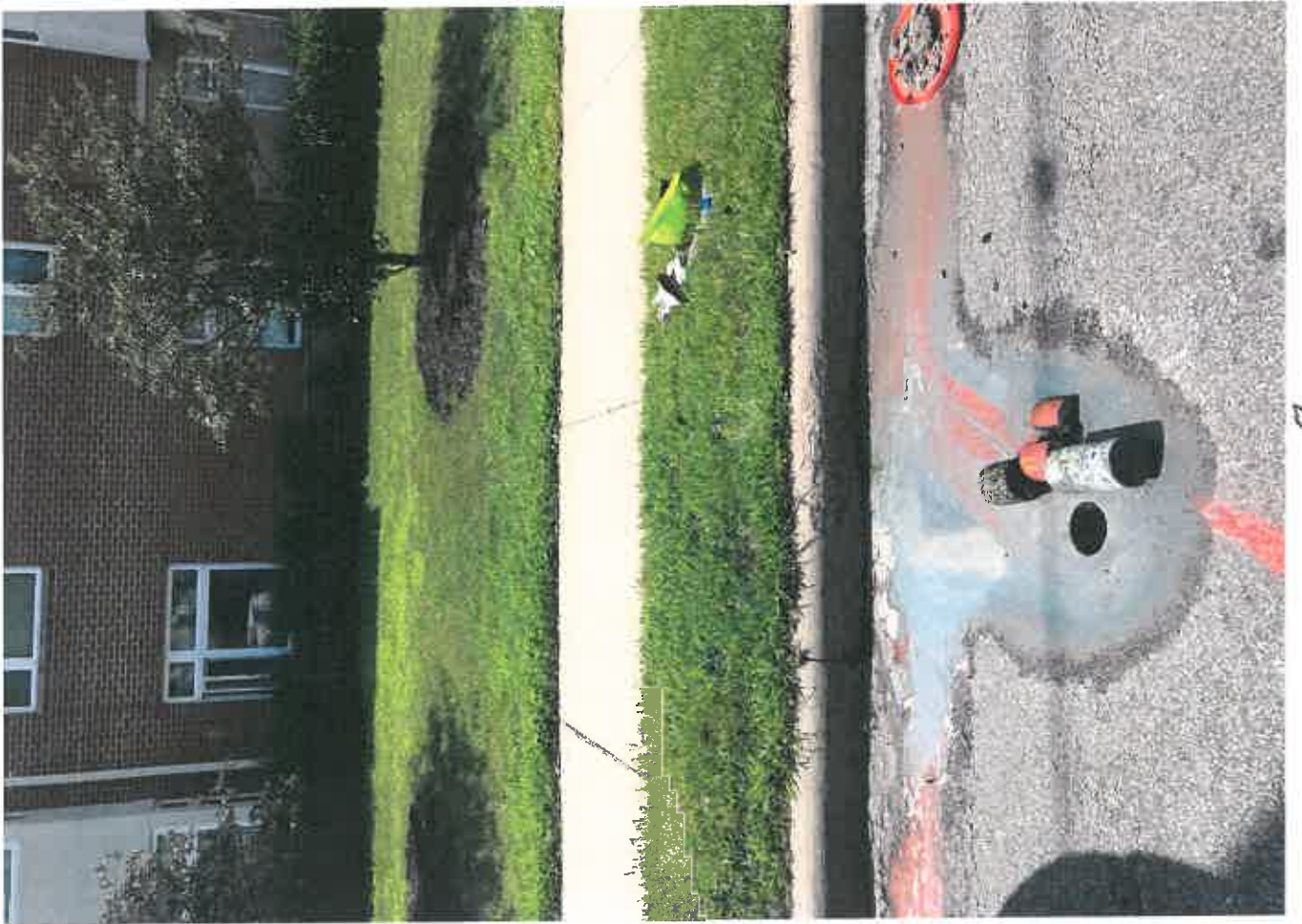
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11



14



13



16



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181



171



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