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May 4, 2023

Ms. Leanne Exum, PE, SI
City of Painesville
66 Mentor Avenue
Painesville, Ohio 44077

Via E-mail: lexum@painesville.com

RE: Liberty Street Pavement Cores
Painesville, Ohio
SME Project No.: 092453.00

Dear Ms. Exum:

SME completed 18 pavement cores along Liberty Street at the locations shown on the attached core location diagrams. The locations were selected by The City of Painesville to be representative of the pavement conditions. Prior to the coring, OUPS was contacted and existing public utilities were marked. Core C-17 was relocated due to a utility conflict.

At the 18 locations, SME cored the pavement and collected the pavement samples. The pavement cores were transported to SME's laboratory where they were photographed, and the various pavement layers were measured. The appended photo log summarizes the encountered pavement thicknesses and photos of each core.

The general pavement profile consisted of asphalt ranging between 5 to 10-1/4 inches, underlain by either concrete or a brick paver. At six locations, C-3, C-4, C-6, C-7, C-9, and C-14, no traditional intermediate layers of asphalt were found, just varying layers of surface course asphalt.

At core location C-2, there was about a one half-inch of sand found between the bottom of the asphalt and top of concrete. This was not found at any other location.

At core locations C-2, C-3, and C-9, the concrete encountered below the asphalt layers was easily cored and appeared to be at least partially deteriorated. During coring at location C-9, the concrete began breaking apart and only small pieces were able to be obtained. At the other locations, the concrete was relatively intact and was difficult to core through. The brick encountered below the asphalt layers was also relatively intact and difficult to core through.

SME would be pleased to meet with you to discuss the results of our pavement exploration and assist in maintenance planning and recommendations to address the current pavement conditions.

Sincerely,

SME

LETTER PREPARED BY:

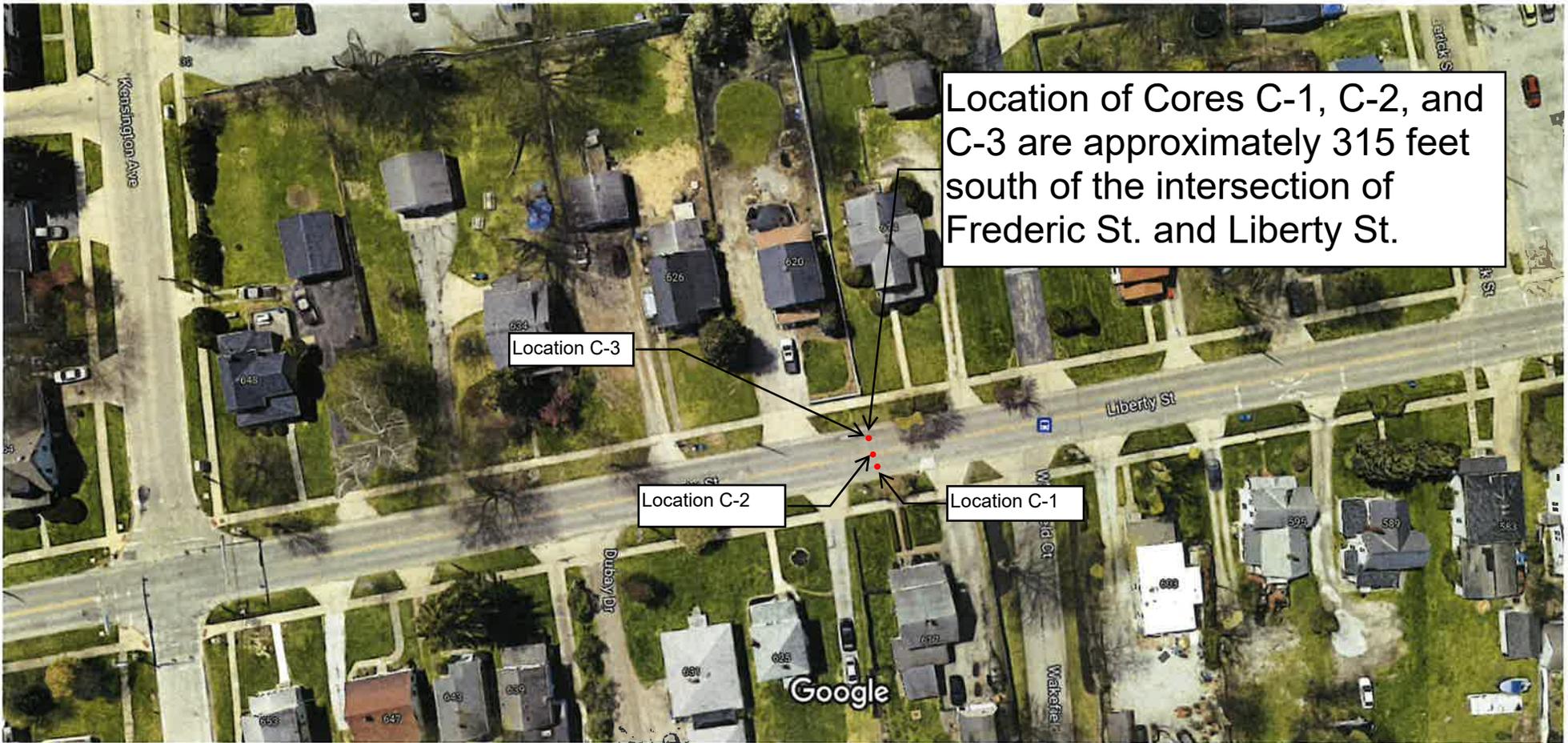


Kennith Riebe
Senior Staff Specialist

LETTER REVIEWED BY:

Thomas P. Olding, P.E.
Project Engineer

Attachments: Liberty Street Pavement Core Location Diagrams
Liberty Street Core Photo Log



Location of Cores C-1, C-2, and C-3 are approximately 315 feet south of the intersection of Frederic St. and Liberty St.

Location C-3

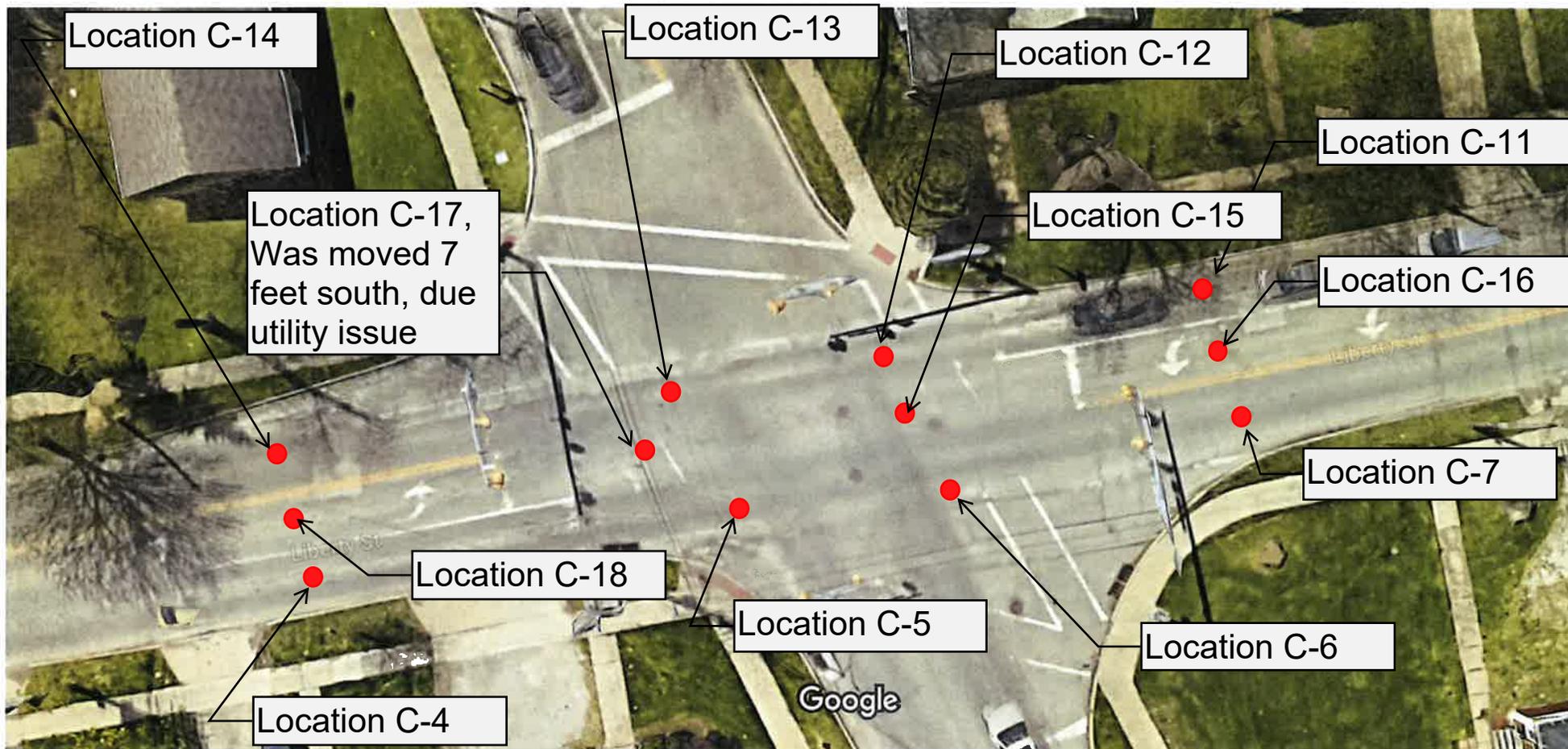
Location C-2

Location C-1

Imagery ©2023 Google, Imagery ©2023 Maxar Technologies, State of Ohio / OSIP, U.S. Geological Survey, Map data ©2023 Google 50 ft



Locations C-8, C-9, and C-10 are located approximately 121 feet south of the intersection of South St. and Liberty St.



Imagery ©2023 Google, Map data ©2023, Map data ©2023 10 ft

				
Core Location	C-1	C-2	C-3	C-4
Asphalt, in.	8	5	5	9-1/4
Concrete or Brick, in.	3-7/8 Brick	12 Concrete	14-1/2 Concrete	3-7/8 Brick

				
Core Location	C-5	C-6	C-7	C-8
Asphalt, in.	10-1/4	9-3/4	7	6
Concrete or Brick, in.	8-3/4 Concrete	3-7/8 Brick	9 Concrete	3-7/8 Brick

				
Core Location	C-9	C-10	C-11	C-12
Asphalt, in.	6-1/4	5-3/8	5-1/4	5
Concrete or Brick, in.	9 Concrete	3-7/8 Brick	3-7/8 Brick	3-7/8 Brick

				
Core Location	C-13	C-14	C-15	C-16
Asphalt, in.	5-1/2	5	9-7/8	7-1/8
Concrete or Brick, in.	3-7/8 Brick	8-3/4 Concrete	3-7/8 Brick	3-7/8 Brick

				
<p>Core Location</p>	<p>C-17</p>	<p>C-18</p>		
<p>Asphalt, in.</p>	<p>10</p>	<p>7-3/4</p>		
<p>Concrete or Brick, in.</p>	<p>3-7/8 Brick</p>	<p>3-7/8 Brick</p>		