

December 12, 2022

Mr. Scott Green, PE Strand Associates, Inc. 615 Elsinore Place, Suite 320 Cincinnati, Ohio 45202

Re: Pavement Cores GPHC - Embschoff Woods Pavement Evaluation Cincinnati, Ohio Geotechnology Project No. J041853.04

Dear Mr. Green:

Presented in this report are the results of the pavement cores completed at Embshoff Woods and Nature Preserve in Cincinnati, Ohio. Our services were performed in general accordance with our Proposal P041853.04, which was dated September 21, 2022 and authorized via Task Order No. 22-02 on November 22, 2022.

The approximate locations of the pavement cores, which are denoted as Pavement Cores PC-1 through PC-8, are illustrated on the attached Pavement Core Location Plans. The cores were drilled on December 8, 2022, and the core holes were patched with cold-patch asphalt. There was no aggregate base beneath the asphalt pavement at any of the cored locations.

A summary of the asphalt pavement thicknesses is provided in Table 1, and photographs of the pavement cores are included as an attachment to this report.

Pavement	Asphalt Concrete Course Thickness (in.)		Total Asphalt Concrete
Core	Surface	Base	Core Thickness (in.)
PC-1	1.25	6.75	8
PC-2	1	6	7
PC-3	1.5	6.25	7.75
PC-4	1	8	9
PC-5	1.25	6.5	7.75
PC-6	1.75	7.25	9
PC-7	1.5	7.5	9
PC-8	2	9	11

Table 1. Summary of pavement base thicknesses.

This report has been prepared on behalf of, and for the exclusive use of, Strand Associates, Inc. for specific application to the named project as described herein. If this report is provided to other parties, it should be provided in its entirety with all supplementary information. In addition, Strand



Associates, Inc. should make it clear that the information is provided for factual data only, and not as a warranty of subsurface conditions presented in this report.

Geotechnology has attempted to conduct the services reported herein in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality and under similar conditions. The field exploration methods used indicate pavement and aggregate subbase conditions only at the specific locations where samples were obtained, only at the time they were obtained, and only to the depths penetrated. Consequently, these conditions may vary gradually, abruptly, and/or nonlinearly between sample locations.

We appreciate the opportunity to provide the material sampling services for this project. If you have any questions regarding this report, or if we may be of any additional service to you, please do not hesitate to contact us.

Respectfully submitted, **GEOTECHNOLOGY, LLC**

Weaver

Joshua L. Weaver, El Staff Engineer

JLW/JDH:jlw/jdh

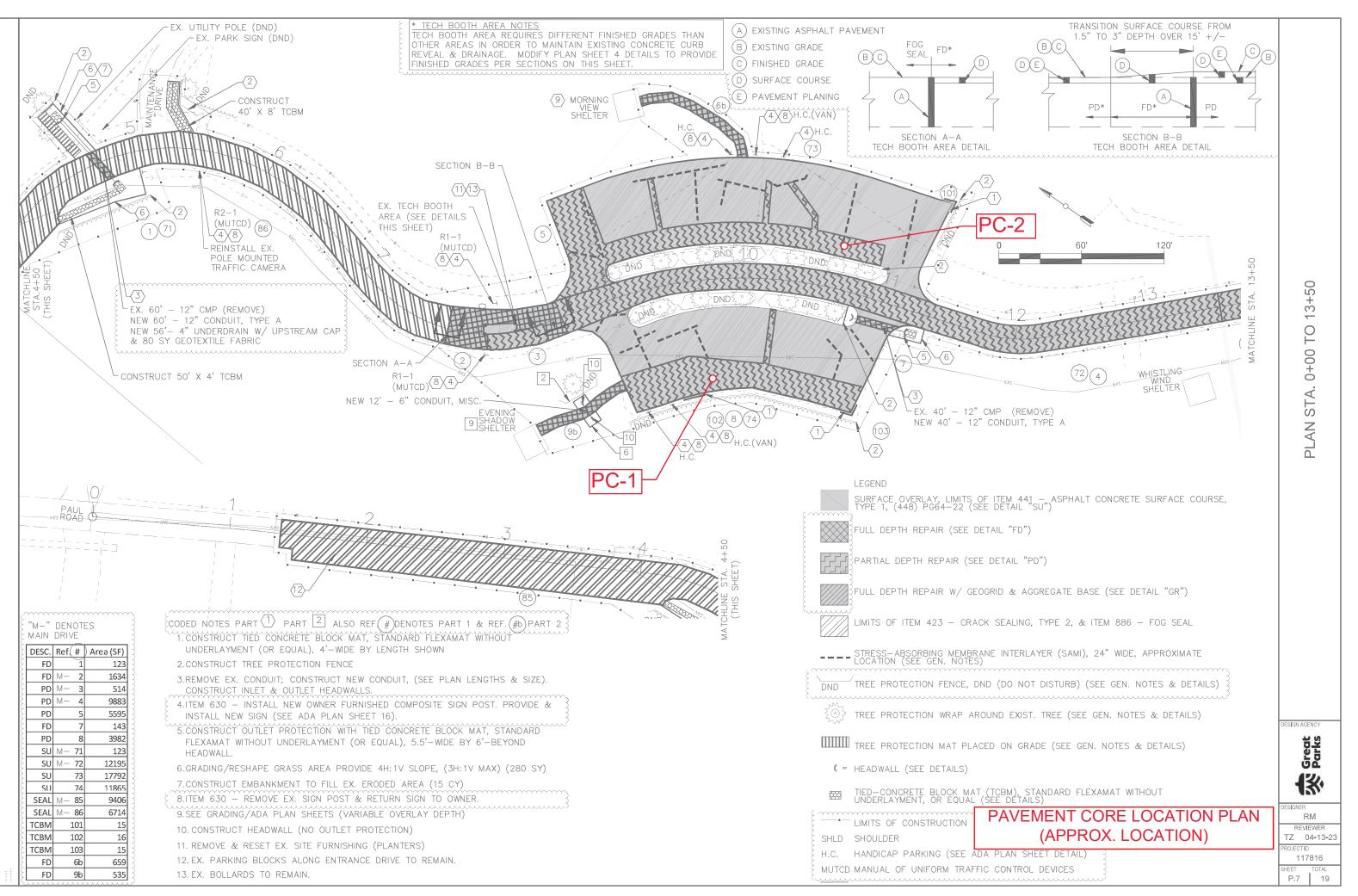
Attachments: Pavement Core Location Plans Site Photographs Pavement Core Photographs

Copies submitted: Strand Associates, Inc. (email)

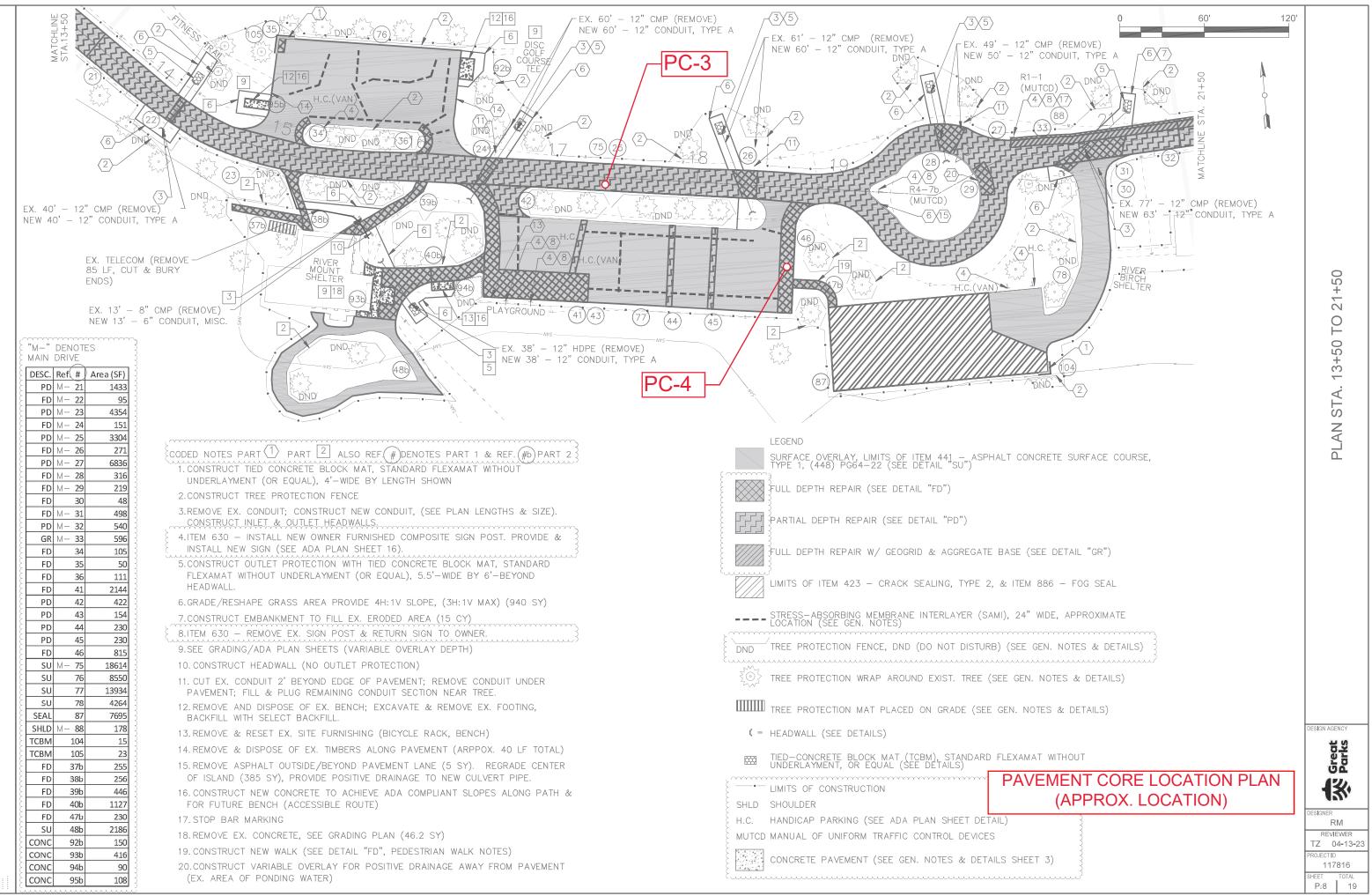
Joseph D. Hauber, PE Principal Geotechnical Engineer

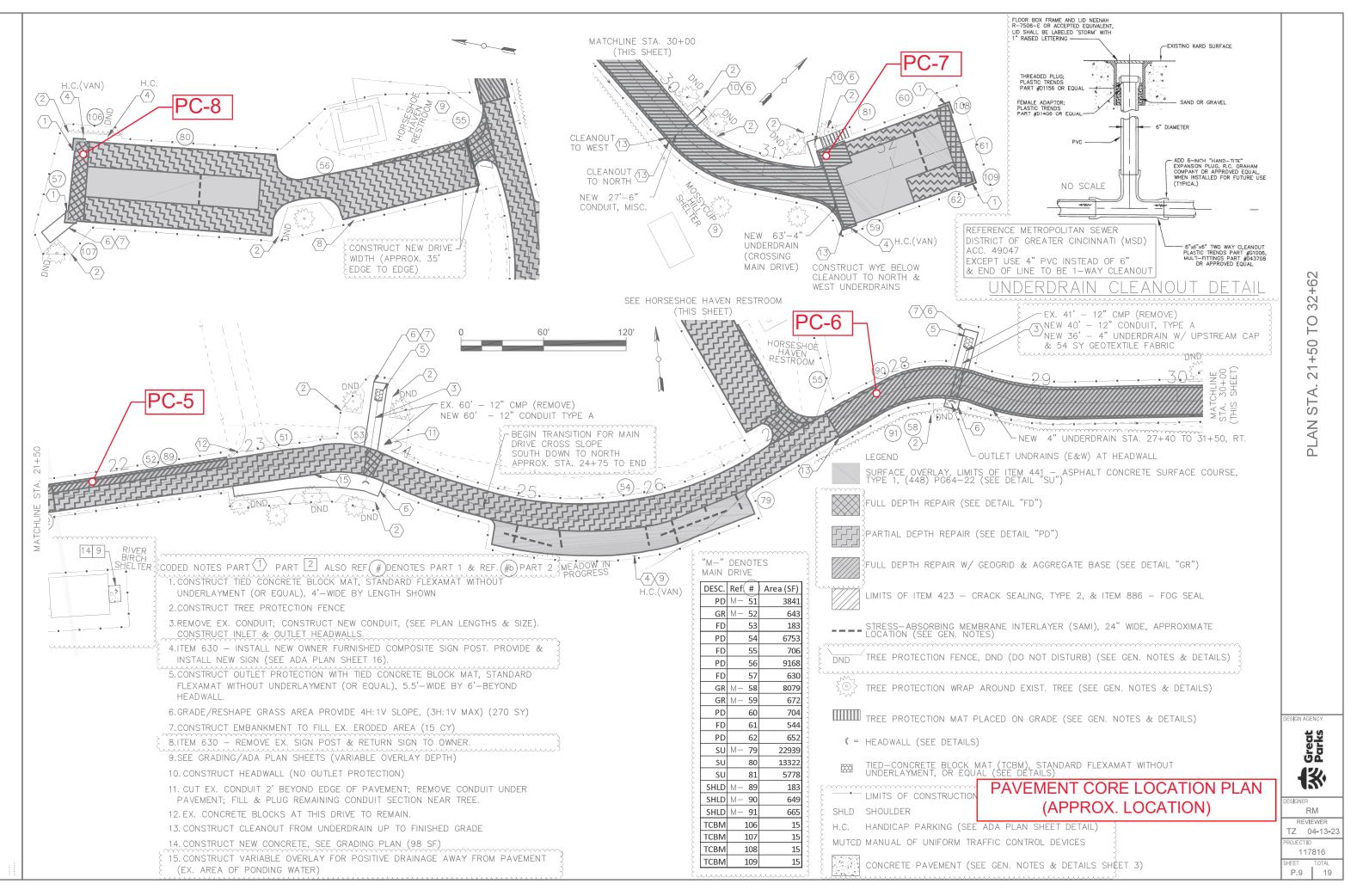


PAVEMENT CORE LOCATION PLANS



EMBSHOFF WOODS RESURFACING





EMBSHOFF WOODS RESURFACING



SITE PHOTOGRAPHS





Site Photograph 1. Pavement Core PC-1 (photograph taken December 1, 2022).



Site Photograph 2. Pavement Core PC-2 (photograph taken December 1, 2022).





Site Photograph 3. Pavement Core PC-3 (photograph taken December 1, 2022).



Site Photograph 4. Pavement Core PC-4 (photograph taken December 1, 2022).





Site Photograph 5. Pavement Core PC-5 (photograph taken December 1, 2022).



Site Photograph 6. Pavement Core PC-6 (photograph taken December 1, 2022).





Site Photograph 7. Pavement Core PC-7 (photograph taken December 1, 2022).



Site Photograph 8. Pavement Core PC-8 (photograph taken December 1, 2022).



PAVEMENT CORE PHOTOGRAPHS





Pavement Core Photograph 1. Pavement Core PC-1.



Pavement Core Photograph 2. Pavement Core PC-2.





Pavement Core Photograph 3. Pavement Core PC-3.



Pavement Core Photograph 4. Pavement Core PC-4.





Pavement Core Photograph 5. Pavement Core PC-5.



Pavement Core Photograph 6. Pavement Core PC-6.





Pavement Core Photograph 7. Pavement Core PC-7.



Pavement Core Photograph 8. Pavement Core PC-8.