
Redistricting

4 messages

Michael Harris <mrharris@lexrich5.org>
To: "info@croppergis.com" <info@croppergis.com>

Wed, Jun 15, 2022 at 11:25 AM

Good Morning!

I am in search of speaking with someone regarding redistricting initiatives in School District Five of Lexington/Richland Counties (Irmo, SC).

My contact information can be found below...

Look forward to speaking with someone soon.
Thank you!

--

Dr. Michael R. Harris
School District Five of Lexington/Richland Counties
mrharris@lexrich5.org
803.476.8121

Michael Harris <mrharris@lexrich5.org>
To: "info@croppergis.com" <info@croppergis.com>

Thu, Jun 23, 2022 at 7:45 AM

Mr. Matthew Cropper:

Good Morning!

Thank you for talking with me a few days ago regarding redistricting initiatives in School District Five of Lexington/Richland Counties.

I am reaching out to follow-up on that conversation, specifically as it pertains to suggested quotes for services rendered.

The school district has interests in redistricting scenarios utilizing its current enrollment, as well as scenarios utilizing a set of options under a newly proposed bond referendum.

Please advise regarding a suggested quote and anticipated timelines for services. (As we discussed, it would be great to share this information with the local school board during the upcoming meeting -0 June 27, 2022).

Thank you in advance for your support and assistance...

[Quoted text hidden]

Matthew Cropper <mcropper@croppergis.com>
To: Michael Harris <mrharris@lexrich5.org>

Thu, Jun 23, 2022 at 8:05 AM

Michael,

Thank you for following up. I have this ready and will send today before lunch. Stay tuned.

[Quoted text hidden]

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Sincerely,

Matthew Cropper
President
Cropper GIS Consulting, LLC
P.O. Box 1308
Delaware, Ohio 43015
mcropper@croppergis.com
614-451-1242 office
614-208-9110 cell
www.croppergis.com

Thu, Jun 23, 2022 at 8:07 AM

Michael Harris <mrharris@lexrich5.org>
To: Matthew Cropper <mcropper@croppergis.com>

Thank you so much!
[Quoted text hidden]

Proposal for Redistricting

2 messages

Thu, Jun 23, 2022 at 10:15 AM

Matthew Cropper <mcropper@croppergis.com>
To: Michael Harris <mrharris@lexrich5.org>

Dr. Harris,

Attached is the proposal for redistricting work as we discussed. Let me know if you have any questions or want to discuss the proposal and/or scope any further.

Thanks and talk to you soon!

Sincerely,

Matthew Cropper

President

Cropper GIS Consulting, LLC

P.O. Box 1308

Delaware, Ohio 43015

614.451.1242 phone

614.208.9110 mobile

mcropper@croppergis.com

www.croppergis.com



District 5 of Lexington and Richland Counties- Redistricting Consulting Proposal 220615.pdf
288K

Thu, Jun 23, 2022 at 10:44 AM

Michael Harris <mrharris@lexrich5.org>
To: Matthew Cropper <mcropper@croppergis.com>

Awesome and thank you!

Look forward to working with you soon!!

[Quoted text hidden]

--

Dr. Michael R. Harris
School District Five of Lexington/Richland Counties
mrharris@lexrich5.org
803.476.8121

Data Collection Request: School District Five of L/R Counties

4 messages

Matthew Cropper <mcropper@croppergis.com>

Tue, Jun 28, 2022 at 2:24 PM

To: Michael Harris <mrharris@lexrich5.org>, Cropper GIS Team <team@croppergis.com>

Cc: Vann Holden <vholden@lexrich5.org>

Hello Dr. Harris and Dr. Holden,

Thank you for your call today. I have attached the data collection request to get things going with our work together. I will set up a SFTP account for Dr. Holden to post the data to.

If you have anyone else you'd like to have access to the SFTP let me know and we can provide an account for them. Let me know if you have any questions about the details of the data collection request.

Thanks and we look forward to working with you and the district!

Sincerely,

Matthew Cropper

President

Cropper GIS Consulting, LLC

P.O. Box 1308

Delaware, Ohio 43015

614.451.1242 phone

614.208.9110 mobile

mcropper@croppergis.com

www.croppergis.com

On Tue, Jun 28, 2022 at 1:39 PM Michael Harris <mrharris@lexrich5.org> wrote:

Mr. Matthew Cropper:

Thank you for talking with me (and Dr. Vann Holden) this afternoon.

We look forward to working with you and sharing a final product with the local Board of Trustees.

Below is the contact information advised earlier:

Dr. Michael Harris - mrharris@lexrich5.org

Dr. Vann Holden - vholden@lexrich5.org

An upload of the data will occur shortly following receipt of the template you will provide.

Thank you and talk to you soon!

--
Dr. Michael R. Harris

School District Five of Lexington/Richland Counties
mrharris@lexrich5.org
803.476.8121

 **District 5 of Richland and Lexington Counties, SC Redistricting Study Data Collection Request 220628.pdf**
108K

Wed, Jun 29, 2022 at 1:55 PM

Vann Holden <vholden@lexrich5.org>

To: Matthew Cropper <mcropper@croppergis.com>

Cc: Michael Harris <mrharris@lexrich5.org>, Cropper GIS Team <team@croppergis.com>

All,

I have updated the following in the sharepoint system.

- Historical enrollment by school by grade. Historical enrollment by school by grade for years 2017-18 to 2021-22. - **These are in Excel spreadsheets.**
- Attendance Boundary Maps. Maps showing Elementary, Middle, and High School zones. GIS format is preferred, but we can utilize PDF maps of zones if necessary. - **This is done. Please be aware that we do not follow the traditional elementary/middle/high breakdown. We have some elementary schools that are PK-4 and some that are PK-5, one intermediate school is 5-6 and the other is 6 only, one of our middle schools has some sixth graders, while the other two only have a few sixth graders for very specific programs. In addition, Spring Hill High does not have an attendance zone as it is a district-wide magnet program (any student in grades 9-12 can apply to attend; random drawing determines who is accepted into the program).**
- School Points. ESRI shapefile. If you have other school property (i.e. closed schools and/or other school property) it could be useful. - **I provided the locations of our schools in an Excel spreadsheet. We typically use the file I sent over when layering other data/maps/visualizations on top of it.**
- School capacity information. - **In an Excel spreadsheet.**
- Referendum details - **In a PDF. Please refer to slides 7-9. This is from the superintendent's most recent presentation.**

My team is working on the database and should have that ASAP.

[Quoted text hidden]

--



Vann Holden, Ph.D.

Director of Planning and Accountability
School District Five of Lexington & Richland Counties
p: 803.476.8189 e: vholden@lexrich5.org

Thu, Jun 30, 2022 at 8:56 AM

Matthew Cropper <mcropper@croppergis.com>

To: Vann Holden <vholden@lexrich5.org>

Cc: Michael Harris <mrharris@lexrich5.org>, Cropper GIS Team <team@croppergis.com>

Thank you Dr. Holden,

We will look these over and let you know if we have any questions, and will keep an eye out for other data you intend to post to the site.
Thanks again and we look forward to working with you and the district!

Sincerely,

Matthew Cropper

President

Cropper GIS Consulting, LLC

P.O. Box 1308

Delaware, Ohio 43015

614.451.1242 phone

614.208.9110 mobile

mcropper@croppergis.com

www.croppergis.com

[Quoted text hidden]

Thu, Jun 30, 2022 at 4:23 PM

Vann Holden <vholden@lexrich5.org>

To: Matthew Cropper <mcropper@croppergis.com>

Cc: Michael Harris <mrharris@lexrich5.org>, Cropper GIS Team <team@croppergis.com>

The student database has also been loaded into the folder.

[Quoted text hidden]

--



Vann Holden, Ph.D.

Director of Planning and Accountability

School District Five of Lexington & Richland Counties

p: 803.476.8189 e: vholden@lexrich5.org

**Proposal for Redistricting Services for
District 5 of Lexington and Richland
Counties,
South Carolina**

June 2022

Cropper GIS

Redistricting Study Services

To:

Dr. Michael R. Harris
Chief of Student Services and Planning
District 5 of Lexington and Richland Counties
(803) 476-8121 phone
mrharris@lex5.k12.sc.us

From:

Matthew Cropper
President
Cropper GIS Consulting, LLC
P.O. Box 1308
Delaware, Ohio 43015
(614) 451-1242 phone
mcropper@croppergis.com

Date:

June 15, 2022

Dr. Harris,

This proposal has been developed as a response to the District 5 of Lexington and Richland Counties, South Carolina (district) request for redistricting consultation services. This project will be completed by **Cropper GIS Consulting (Cropper)**. The project will be directed by Matthew Cropper.

We are confident that you will find our team to be a good fit for this project, as we have a wealth of relevant experience and have performed these services to many other satisfied clients. We thank you for the opportunity to submit this proposal for the district and look forward to the opportunity of working together.

Sincerely,

Matthew Cropper

DISTRICT 5 OF LEXINGTON AND RICHLAND COUNTIES, SC
REDISTRICTING SERVICES

Firm Profile - Cropper GIS Consulting, LLC

Since the company was formed in 2005, **Cropper GIS Consulting (Cropper)** has worked with clients on various demographic, redistricting, and GIS Implementation projects. The majority of clients served by **Cropper** are school districts, and all projects have met/exceeded our client's expectations. Our firm's expertise is in demographic studies, K-12 school redistricting, long-range facility planning, and GIS Implementation/Training.

Some of our more recent clients include:

- Charleston County Public Schools, South Carolina
- Pickens County Schools, South Carolina
- Sumter County Schools, South Carolina
- Aiken County Schools, South Carolina
- Richland One Schools, South Carolina
- Rock Hill Schools, South Carolina
- Anderson 5 Schools, South Carolina
- Spartanburg 2 Schools, South Carolina
- Spartanburg 5 Schools, South Carolina
- Union County Public Schools, North Carolina
- Cabarrus County Public Schools, North Carolina
- Brunswick County Public Schools, North Carolina
- Barrington Public Schools, Rhode Island
- East Greenwich Schools, Rhode Island
- Cranston Public Schools, Rhode Island
- East Providence Schools, Rhode Island
- Providence Public Schools, Rhode Island
- West Warwick Public Schools, Rhode Island
- Warwick Public Schools, Rhode Island
- Akron Public Schools, Ohio
- Westerville City Schools, Ohio
- South-Western City Schools, Ohio
- Lakewood City Schools, Ohio
- Windsor Public Schools, Connecticut
- Wellesley Public Schools, Massachusetts
- Nantucket Public Schools, Massachusetts
- South Burlington Schools, Vermont
- Albany Public Schools, New York
- Saratoga Springs Public Schools, New York
- Corning Painted Post School District, New York
- Schenectady City School District, New York
- Buffalo Public Schools, New York
- Baltimore County Public Schools, Maryland
- Frederick County Public Schools, Maryland
- Spotsylvania County Schools, Virginia
- Henrico County Public Schools, Virginia
- Richmond City Schools, Virginia
- Frederick County Public Schools, Virginia
- Alexandria City Public Schools, Virginia
- Arlington Public Schools, Virginia
- Council Rock School District, Pennsylvania
- Reading School District, Pennsylvania
- Ephrata Area Schools, Pennsylvania
- Carthage Central School District, Pennsylvania
- West Jefferson Hills Schools, Pennsylvania
- U.S. Department of Justice, Civil Rights Division
- Billings Public Schools, Montana
- DeKalb District 428, Illinois
- Atlanta Public Schools, Georgia



Geographic Information Systems will be used extensively to analyze demographic data and **Cropper** are experts in the use of the software. **Cropper** are licensed consultants and resellers of ESRI GIS technology, which is utilized by local, state, and federal governments. Mr. Cropper has written multiple articles and presented at conferences across the country on GIS in educational planning. He is a pioneer in integrating new technology with age-old planning processes to refine and enhance accuracy of data when planning.

DISTRICT 5 OF LEXINGTON AND RICHLAND COUNTIES, SC
REDISTRICTING SERVICES

Scope of Services

The district would like to have a study to assess the current utilization and enrollment of schools, and to provide redistricting options to help address any imbalances that may exist. The goal is to develop a redistricting option assuming no new construction to school facilities, and to also develop a redistricting option that assesses the impact of redistricting if the district were to improve/expand schools per their facilities plan.

There are 2 primary phases of the study. These phases are:

- Data Collection and Development.
- Options Development and Meetings

Phase 1: Data Collection and Development

Cropper will collect data from local sources such as the town/city/county departments to support the upcoming planning work. In addition to GIS data, **Cropper** will collect the 2021-22 student enrollment database from the district. Work in this phase includes:

- o Collection of data from various sources.
- o Conversion of datasets into GIS format, including geocoding of student enrollment and conversion of hard-copy maps to GIS format.
- o Incorporation of data into mapping format for analysis

Phase 2: -Options Development and Meetings

Work in this phase includes:

- o Development of tables and maps to depict current student enrollment, utilization, distance to school, and mobility (live/attend analysis).
- o Development of 2 options to align with school district and planning team considerations regarding facilities.
- o Meetings are suggested to be held virtually to save on costs, but in-person meetings can be scheduled to review the work as-needed/requested.

Timeline and Fees

Once all data is received, it is anticipated to take 2-3 weeks to get the data collected and converted, and 2-3 weeks to develop options. A total of 4-6 weeks is required to complete the task, but we can provide some flexibility to the schedule to meet deadlines if possible.

Cropper will work in in July 2022-August 2022 to build necessary pieces of the study, and a handout should be ready to be provided by mid-August if not sooner. Meetings to discuss the findings and do any follow-up analysis or options development could occur in mid-August.

Professional fees for this project are \$30,000 including expenses for the work that has been scoped in this proposal. This fee assumes that there would only be 2 options and 2 revisions developed and 2 virtual meetings to discuss the results.

If there is a need to create additional options beyond the 2 that are in the scope, the cost will be \$2,000 per additional option (includes mapping and reporting of data to identify the option impacts on enrollment, distance, utilization, etc).

If the district wishes to have any on-site meetings, this would cost an additional \$2,000 which includes travel expenses to visit the district. Additional web-based meetings beyond 2 that are scoped will cost \$500 per meeting.

As-Needed Services: Additional time for work requested beyond what is scoped will be invoiced on an hourly basis at \$175 per hour plus expenses. If the request requires a significant block of time, an estimate of time/costs can be provided before the work commences. No additional fees for services will accrue beyond what has been quoted without permission from the district.

Cropper will coordinate printing with the district to keep expenses at a minimum. It is assumed all materials will be provided in digital format, where the district can print as many copies as they wish. If the district wishes to have **Cropper** print copies, the cost will be \$1 per page for color and \$.25 per page for black/white copies. Large-scale plots of maps are printed by a local print company, and typically cost between \$75 and \$100 per plot to print.

**DISTRICT 5 OF LEXINGTON AND RICHLAND COUNTIES, SC
REDISTRICTING SERVICES - Data Collection Request**

Cropper GIS Consulting (Cropper) has been contracted to facilitate a redistricting for the District 5 of Lexington and Richland Counties, SC (district). The following data is being requested to help with the study:

School District Information

- Student Databases. (2021-22 enrollment). The enrollment database is preferred to be dated near Early/Mid-September/October, or close to the state reporting date. It is important that the file have unique student records. So, if there are 17,000 students enrolled in the district, the file should contain 17,000 records. The preferred format is ESRI Shapefile. If shapefile is not available, Microsoft Excel or Access are preferred. The common fields to include for analysis are:
 - o Student ID
 - o Student Address
 - o City
 - o State
 - o Zip
 - o Grade Level
 - o School Name
 - o School Number
 - o Race/Ethnicity
 - o ESL/LEP
- Historical enrollment by school by grade. Historical enrollment by school by grade for years 2017-18 to 2021-22.
- Attendance Boundary Maps. Maps showing Elementary, Middle, and High School zones. GIS format is preferred, but we can utilize PDF maps of zones if necessary.
- School Points. ESRI shapefile. If you have other school property (i.e. closed schools and/or other school property) it could be useful.
- School capacity information. Information on individual school capacities, which can be used to evaluate school facility utilization.
- Referendum details. Any information that provides insight towards potential planning considerations for the referendum, mostly in terms of changes to facilities that will impact overall capacity (i.e. closures, consolidations, additions, new construction).

Other data collected by Cropper: City/County GIS Information

Cropper will also be contacting the city/county agencies to obtain base data for the project. The request will most likely come on behalf of the district, and **Cropper** will make sure that district staff is included in the communication. Information requested will include:

1. Parcels with owner attributes and property address
2. Street Centerlines with addressing attributes (for geocoding)
3. Address Points
4. Points of interest (schools, fire, police, community centers)
5. Neighborhoods
6. Subdivisions
7. Sidewalk layers
8. Building Footprints
9. Railroads, Rivers, Water Bodies
10. Zoning
11. Future planned land use (future planned residential developments and/or redevelopment)

Please don't hesitate to contact our office if you have any questions, or you can contact Matthew Cropper directly at 614.208.9110 or mcropper@croppergis.com