

Hazelwood School District

Demographic Redistricting Study

Mapping Update

Board of Education Meeting

February 19, 2019



OVERVIEW

- **Redistricting Priorities**
- **Data Review**
- **Redistricting Options**
- **Birth Data for Pre-K Planning**
- **Path Forward**



REDISTRICTING PRIORITIES

- **Considerations**
 - **No changes to high school boundaries**
 - **Middle school changes only within same high school boundaries**
 - **Redraw boundaries to achieve student enrollment balances**
 - **Attempt to include existing elementary feeder areas and limit student movement**
 - **Take into account existing transportation networks and improve transportation efficiency**
 - **Eliminate non-contiguous elementary attendance areas (islands)**
 - **Develop 2 plans**
 - **Option 1: Limited student movement**
 - **Option 2: More changes to improve spatial proximity and optimize transportation**



DATA REVIEW

- **Using 2018 September 30 Enrollments Geocoded to District Planning Areas**
- **All Counts Based on Student Residence**
- **All Boundary Modifications Based on Counts of Students Residing in Planning Areas**
- **Total 2018 Records — 17,150**
 - In-District record count — 16,751
 - Total K-12 record count — 16,164
 - Manually matched without X,Y coordinates, special program and Pre-K students not included — 986
- **Planning Area Delineation**
 - 27 unique attendance areas
 - Combinations of elementary and middle school areas
 - 306 planning areas with boundaries consistent with current attendance areas



MAPPING WORKING GROUP

- Director of Transportation
- Director of Security
- Assistant Superintendent
- Director of Data and Assessment
- Director of Federal Programs
- Chief Financial Officer



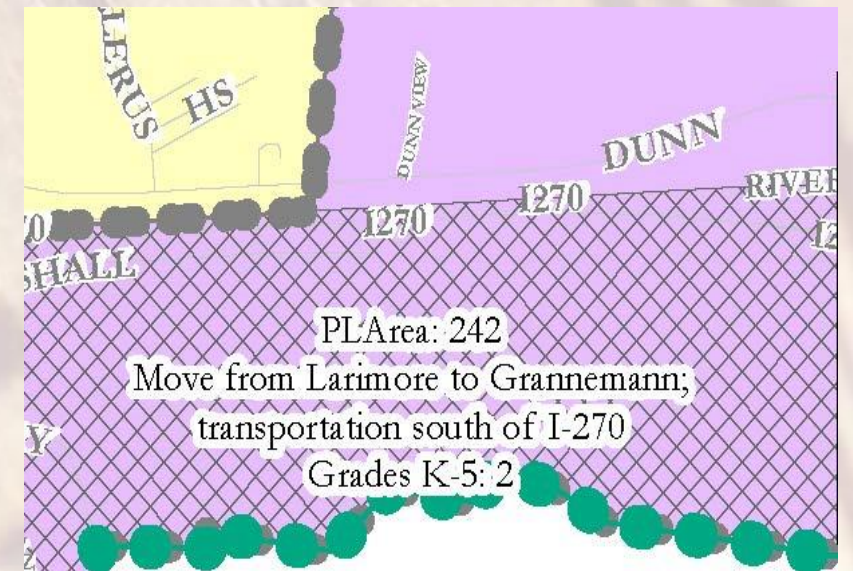
REDISTRICTING OPTIONS

- **Option 1**
 - Very limited student movement
 - Eliminate non-contiguous (“island”) areas
 - Minimal improvements to bus routing efficiency
 - **Students Affected**
 - Elementary—138
 - Middle School—342
- **Option 2**
 - Changes based on spatial proximity to school buildings
 - Optimize transportation routes
 - Balance enrollments
 - More comprehensive alignment of elementary feeder areas to middle school areas
 - **Students Affected**
 - Elementary—353
 - Middle School—362

READING THE MAPS

Areas proposed to be moved/redistricted are indicated with hashes through the area, as indicated in the lower portion of the below picture.

- **PLArea: 242** – This is a planning area, or “puzzle piece”, that represents a small section of the district
- **Move from Larimore to Grannemann** – This indicates the move that would take place for this area
- **Transportation south of I-270** – This indicates the rationale for the proposed move
- **Grades K-5: 2** – This indicates the grade levels (K-5) and the number of students impacted (2)

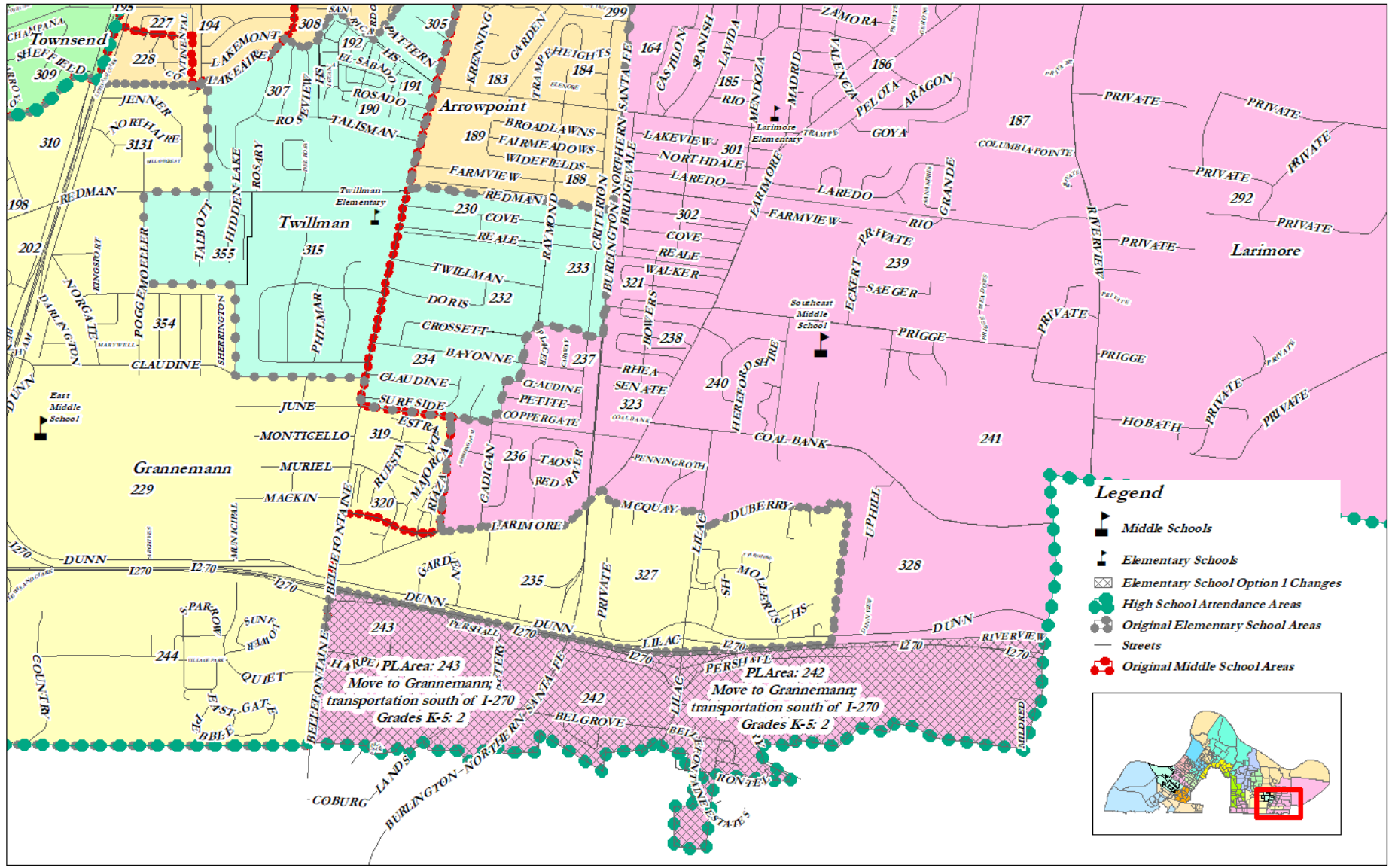




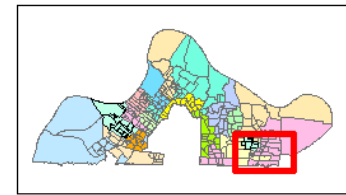
REDISTRICTING MAPS

- **Option 1 Elementary Planning Area Maps**
 - Slide 9, Map Page 1: From Larimore to Grannemann
 - Slide 10, Map Page 2: From Jana to Walker and from Walker to Lusher
 - Slide 11, Map Page 3: From Garrett to McCurdy, from Garrett to McNair, from McNair to Russell, from McCurdy to Armstrong, from Armstrong to Garrett
- **Option 1 Middle School Planning Area Maps**
 - Slide 13, Map Page 4: From and to Southeast and East
 - Slide 14, Map Page 5: From Central to North
 - Slide 15, Map Page 6: From West to Northwest
 - Slide 16, Map Page 7: From Northwest to West

Option 1: Grannemann and Larimore Elementary School Attendance Areas



- Legend**
- Middle Schools
 - Elementary Schools
 - Elementary School Option 1 Changes
 - High School Attendance Areas
 - Original Elementary School Areas
 - Original Middle School Areas
 - Streets



1 inch = 1,333.33 feet
 0 0.075 0.15 0.225 0.3
 Miles



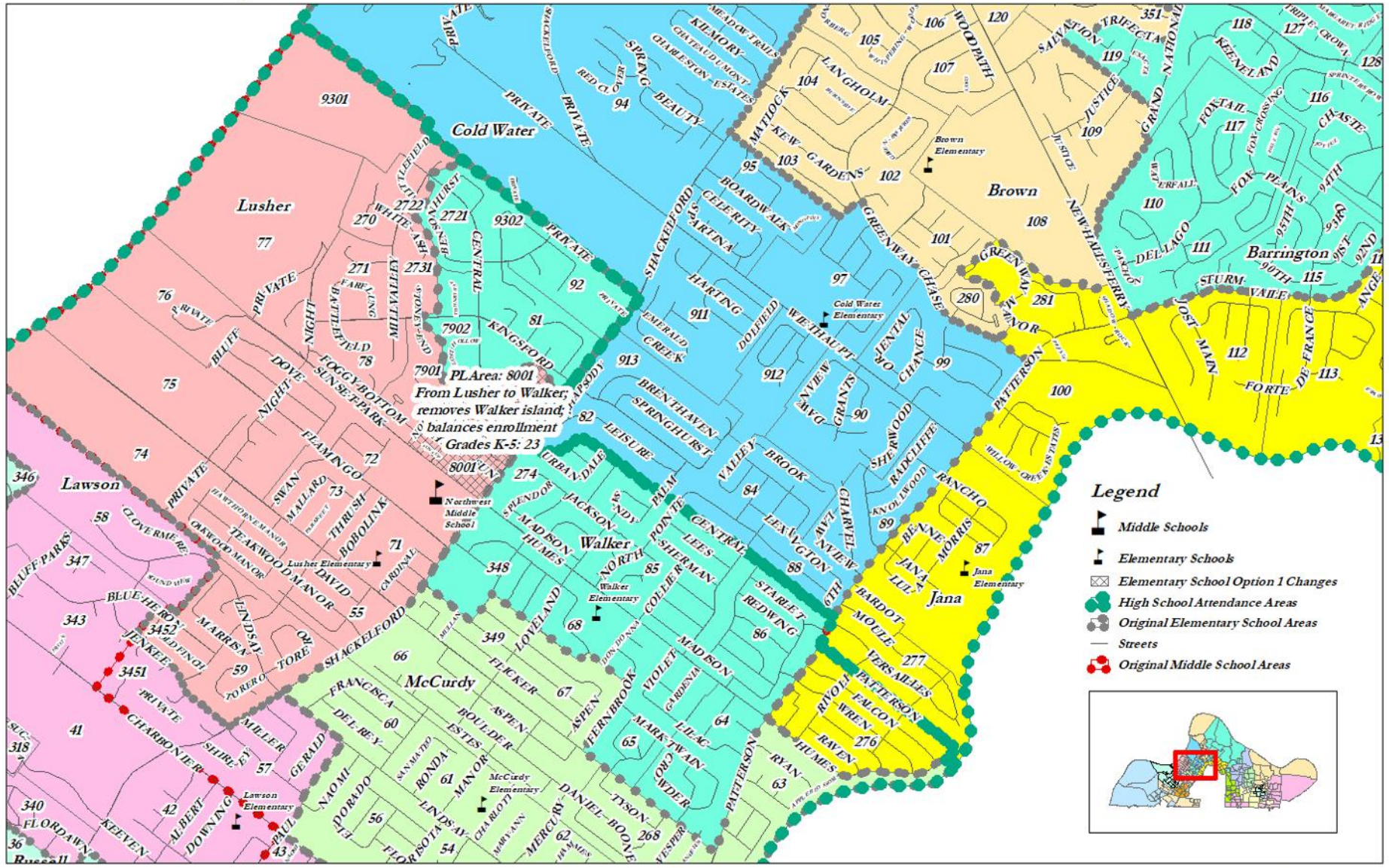
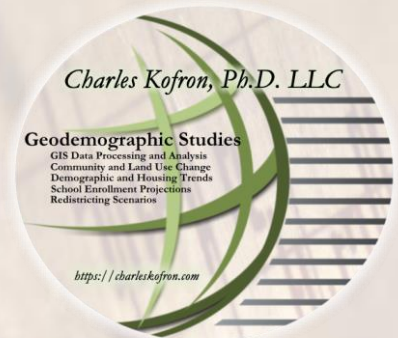
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Demographic Services for Redistricting
 Page 1

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Option 1: Lusher and Walker Elementary School Attendance Areas



- Legend**
- Middle Schools
 - Elementary Schools
 - Elementary School Option 1 Changes
 - High School Attendance Areas
 - Original Elementary School Areas
 - Streets
 - Original Middle School Areas

1 inch = 1,333.33 feet
 0 0.075 0.15 0.225 0.3
 Miles



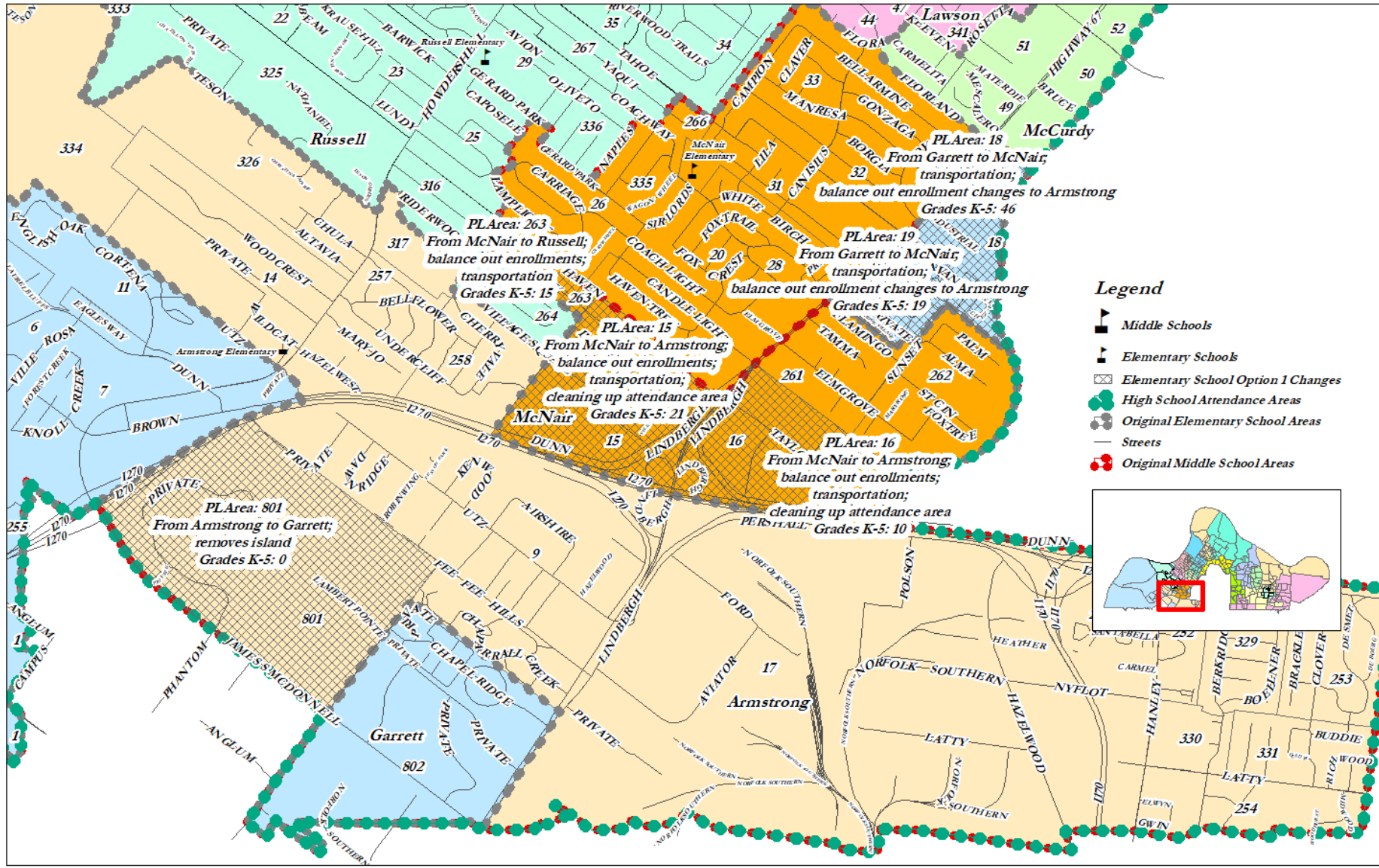
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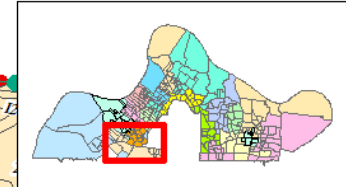
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Option 1: Armstrong, Garrett, McNair, and Russell Elementary School Attendance Areas



- Legend**
- Middle Schools
 - Elementary Schools
 - Elementary School Option 1 Changes
 - High School Attendance Areas
 - Original Elementary School Areas
 - Streets
 - Original Middle School Areas



1 inch = 1,333.33 feet
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 Miles



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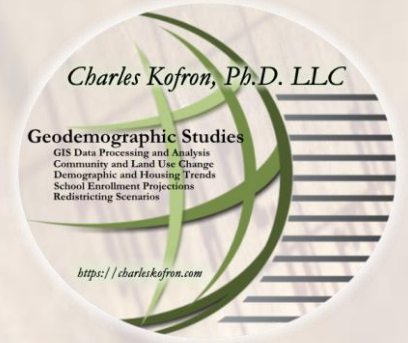


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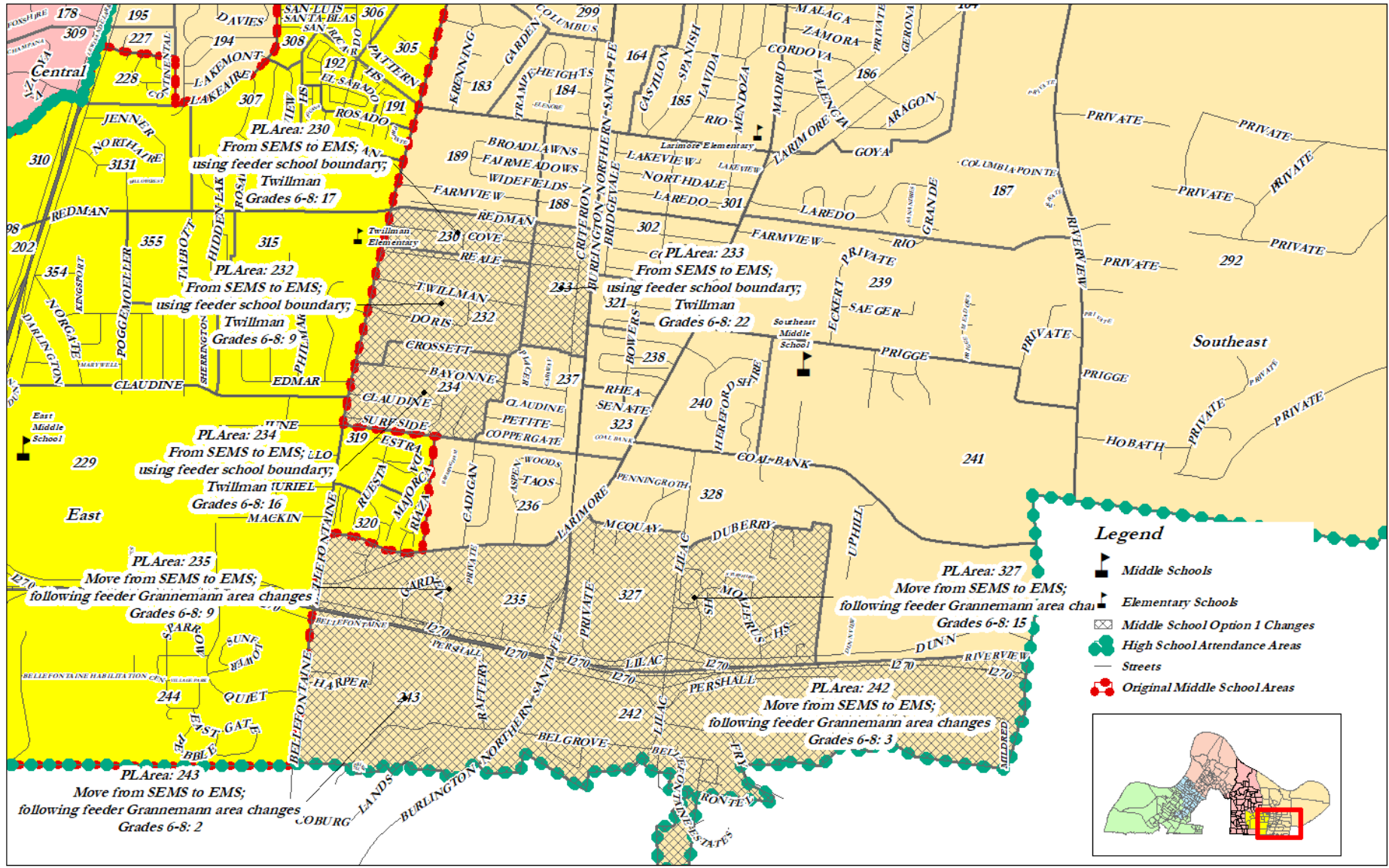
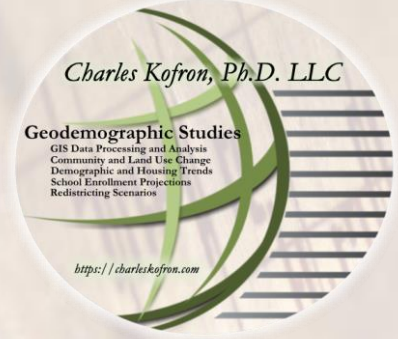
OPTION 1 ELEMENTARY COUNTS

*revised 3/11/19



Attendance Areas	Original Attendance Areas Grades K-5 Counts	Option 1 Attendance Areas Grades K-5 Counts	Optimal Architectural Enrollments at 85%	Difference Option 1 and Original Areas Grades K-5 Counts	Difference Option 1 Areas and Optimal (85%) Counts for Grades K-5	Difference Original Areas and Optimal (85%) Counts for Grades K-5	Map Page(s)	Slide Number(s)	Map Notes
Armstrong	372	403	366	31	37	6	3	10	From McNair to Armstrong
Arrowpoint	505	505	601	0	-96	-96			
Barrington	324	324	436	0	-112	-112			
Brown	292	292	384	0	-92	-92			
Cold Water	423	423	442	0	-19	-19			
Garrett	383	318	354	-65	-36	29	3	10	From Garrett to McNair
Grannemann	281	285	491	4	-206	-210	1	8	From Larimore to Grannemann
Jamestown	361	361	416	0	-55	-55			
Jana	324	324	456	0	-132	-132			
Jury	388	388	429	0	-41	-41			
Keeven	342	342	405	0	-63	-63			
Larimore	411	407	454	-4	-47	-43	1	8	To Grannemann from Larimore
Lawson	382	382	411	0	-29	-29			
Lusher	396	373	409	-23	-36	-13	2	9	From Lusher to Walker
McCurdy	445	445	378	0	67	67			
McNair	385	404	406	19	-2	-21	3	10	From Garrett to McNair
Russell	379	394	423	15	-29	-44	3	10	From McNair to Russell
Townsend	307	307	357	0	-50	-50			
Twillman	321	321	515	0	-194	-194			
Walker	329	352	388	23	-36	-59	2	9	From Lusher to Walker
Totals	7350	7350	8521	0	-1171	-1171			

Option 1: East and Southeast Middle School Attendance Areas



1 inch = 1,333.33 feet
 0 0.075 0.15 0.225 0.3
 Miles



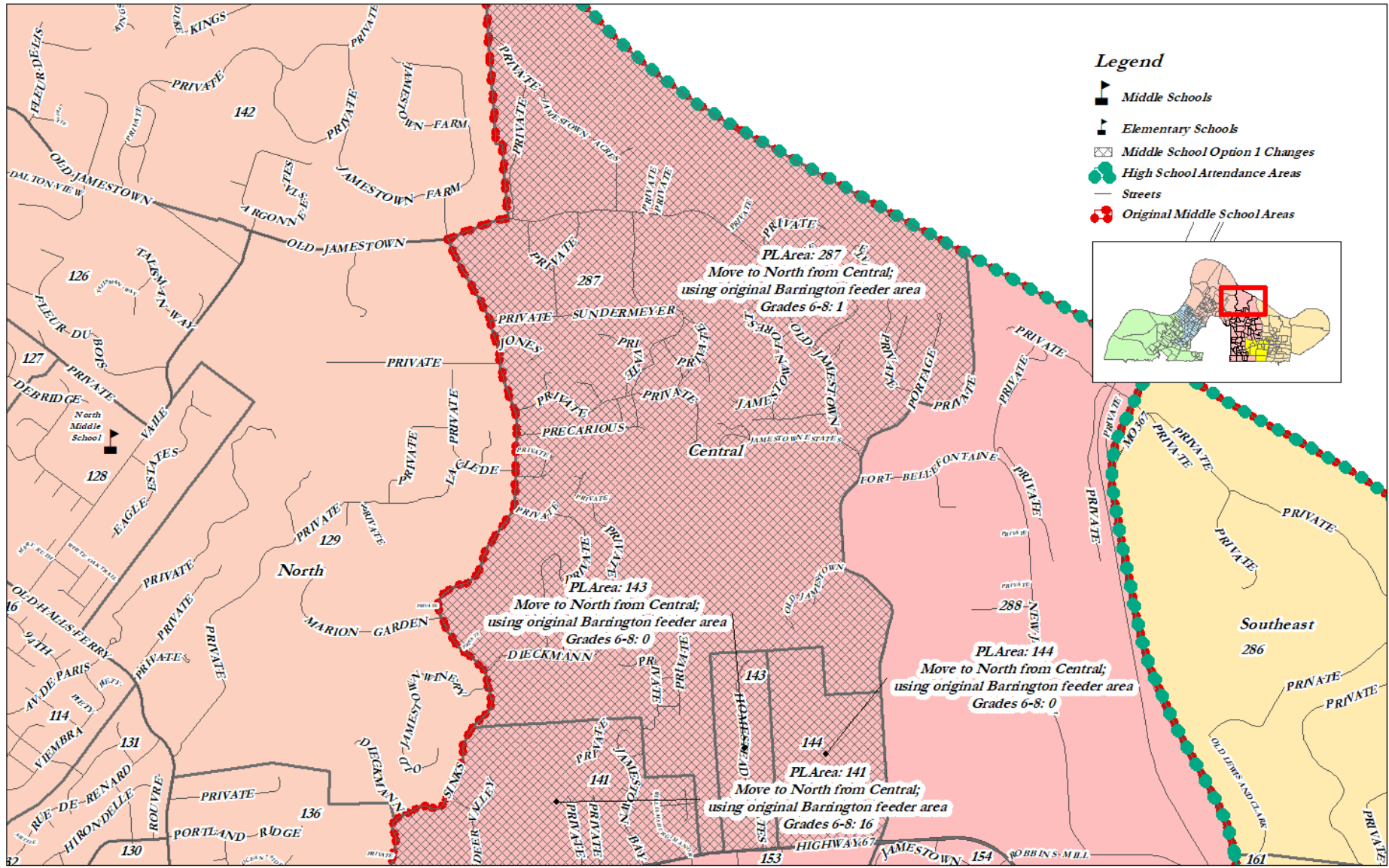
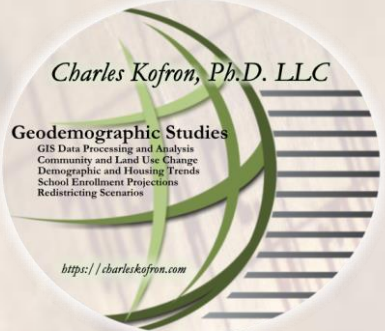
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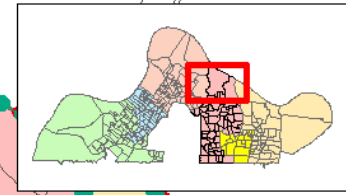
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Option 1: Central and North Middle School Attendance Areas



- Legend**
- Middle Schools
 - Elementary Schools
 - Middle School Option 1 Changes
 - High School Attendance Areas
 - Streets
 - Original Middle School Areas



1 inch = 1,333.33 feet
 0 0.075 0.15 0.225 0.3
 Miles



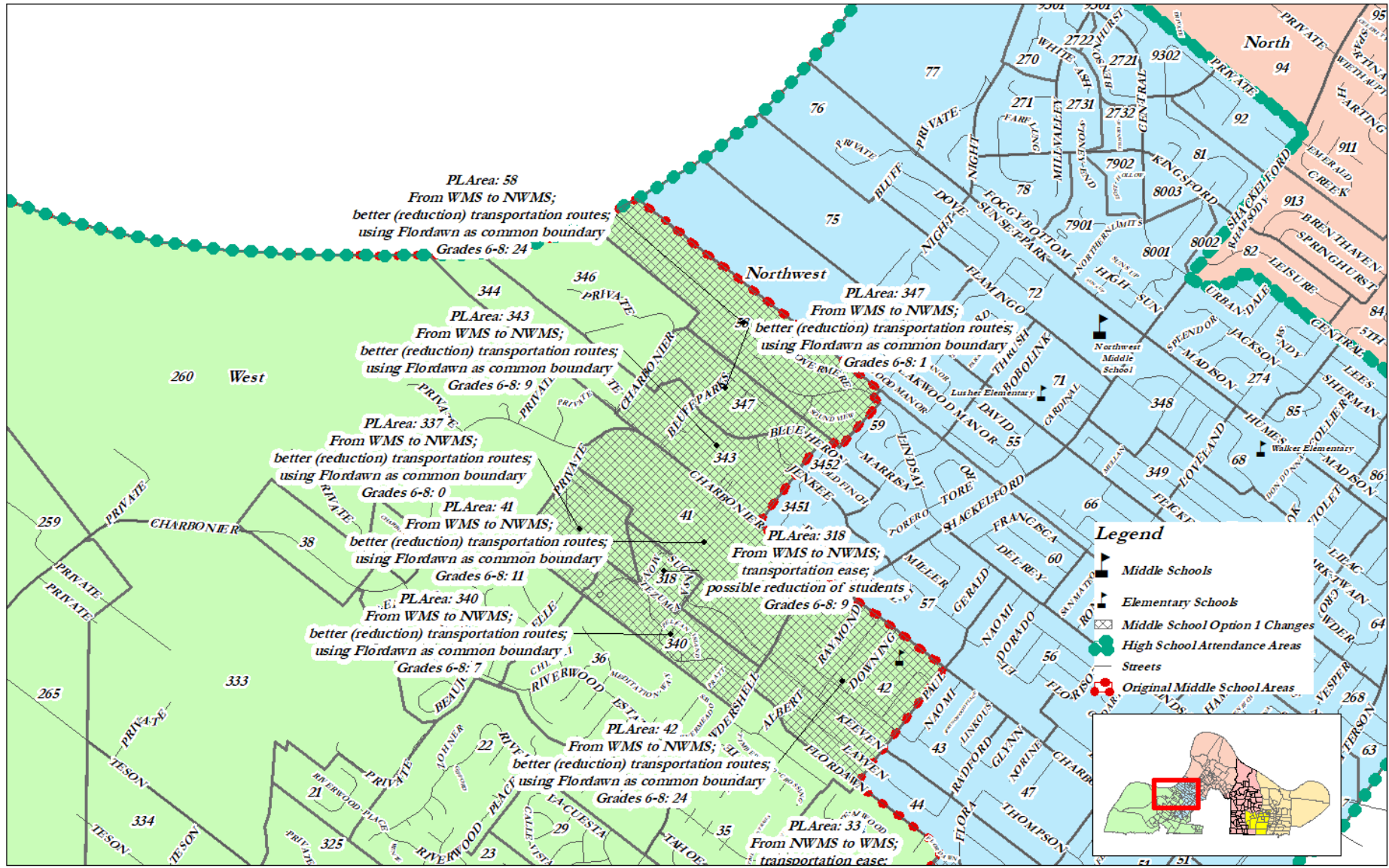
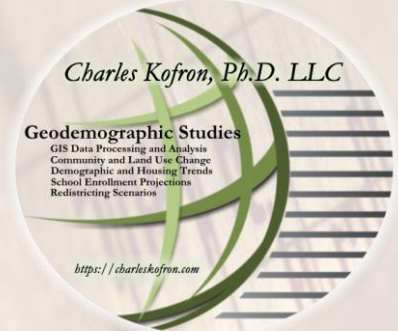
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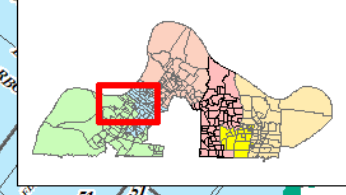
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Option 1: West and Northwest Middle School Attendance Areas



Legend

- Middle Schools
- Elementary Schools
- Middle School Option 1 Changes
- High School Attendance Areas
- Streets
- Original Middle School Areas



1 inch = 1,333.33 feet
 0 0.075 0.15 0.225 0.3
 Miles



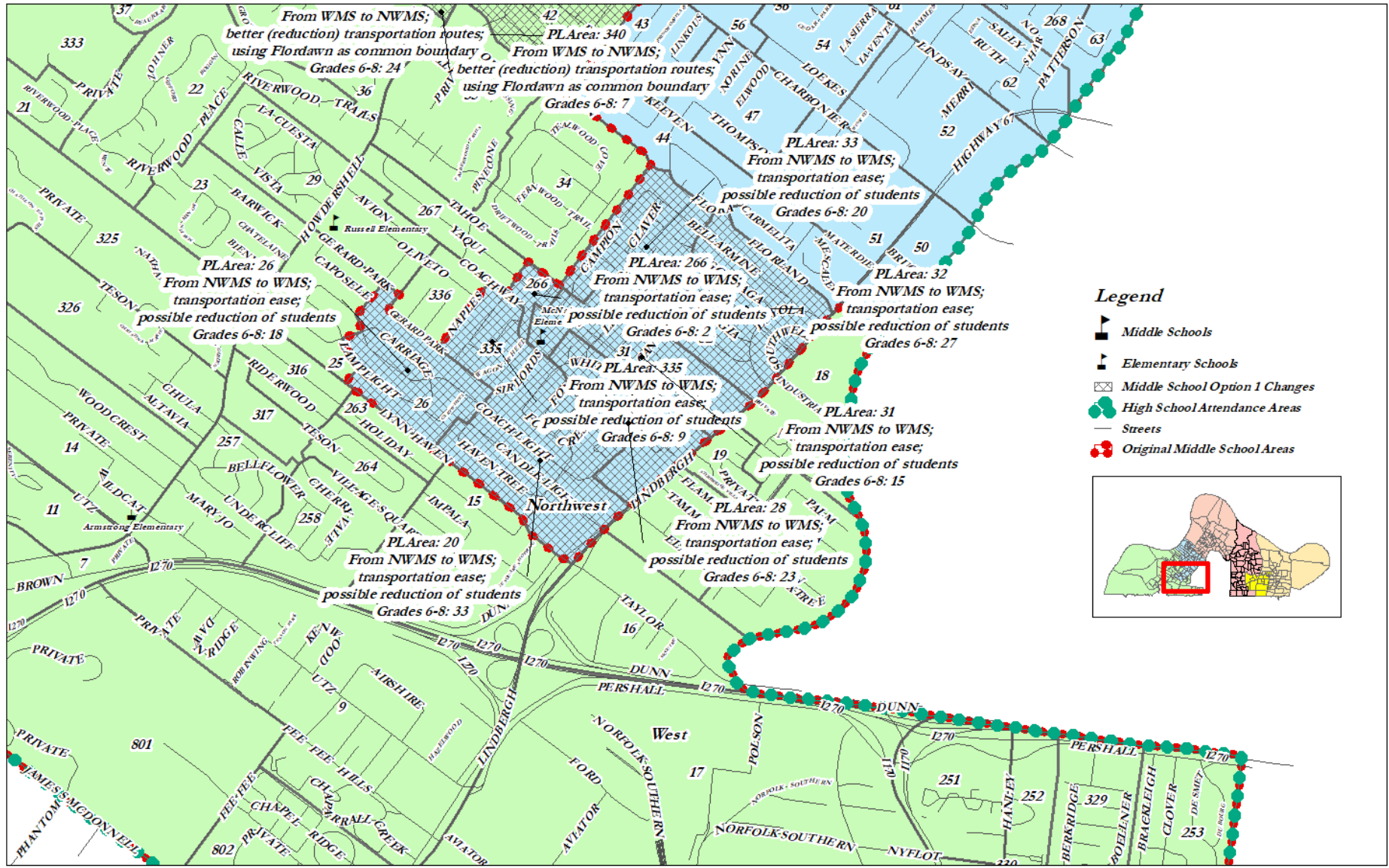
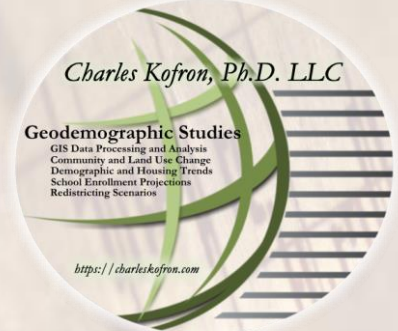
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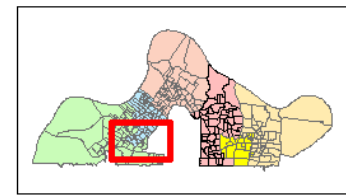
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Option 1: Northwest and West Middle School Attendance Areas



- Legend**
- Middle Schools
 - Elementary Schools
 - Middle School Option 1 Changes
 - High School Attendance Areas
 - Streets
 - Original Middle School Areas



1 inch = 1,333.33 feet
 0 0.075 0.15 0.225 0.3
 Miles



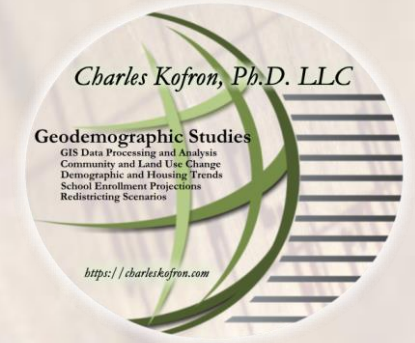
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OPTION 1 MIDDLE SCHOOL COUNTS



Middle School Areas	Original Grade 6-8 Counts	Option 1 Grade 6-8 Counts	Difference Option 1 and Original Grade 6-8 Counts	Map Page(s)	Slide Number(s)	Map Notes
Central	766	749	-17	5	14	Using original boundaries for Jamestown north of Hwy 67
East	231	324	93	4	13	Move to SEMS from EMS; align to modified Arrowpoint and Grannemann boundaries
North	774	791	17	5	14	Move to North from Central to coincide with modified Barrington boundaries
Northwest	867	805	-62	6	15	Move block of planning areas from WMS to NWMS; net difference between WMS and NWMS changes
Southeast	540	447	-93	4	13	Move from SEMS to EMS; to coincide with modified Grannemann and Twillman boundaries
West	714	776	62	7	16	Move block of planning areas from NWMS to WMS; net difference between NWMS and WMS changes
Totals	3892	3892	0			

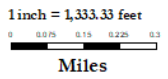
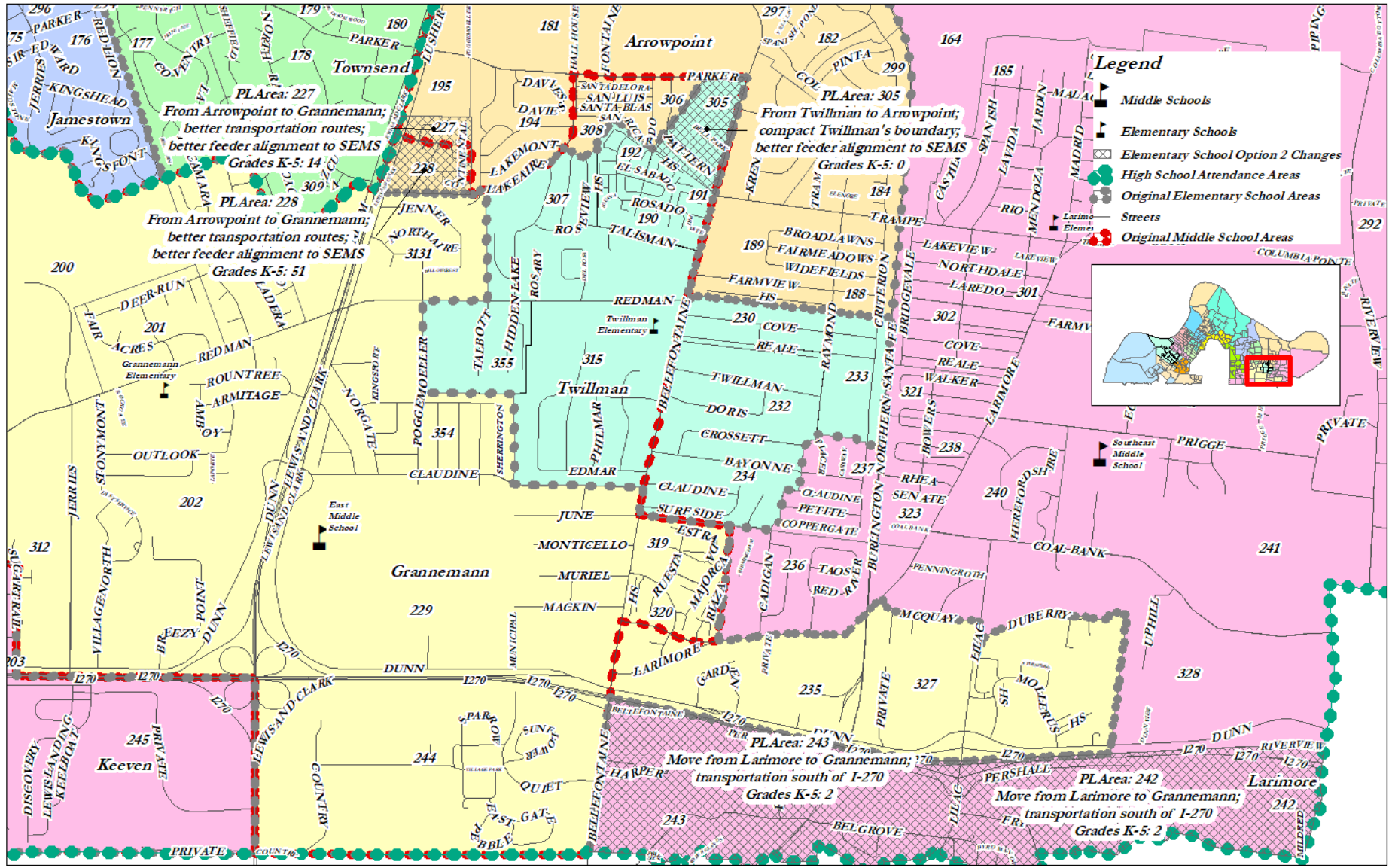
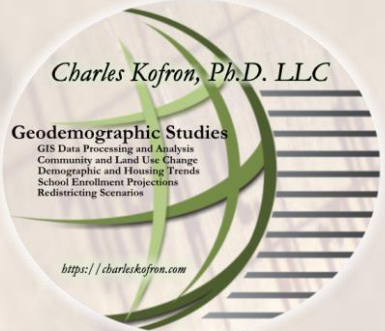
*As with all attendance areas, the student counts for East and Southeast reflect 6th, 7th, and 8th grade enrollment who live in addresses that would be assigned to those schools. However, since East Middle only houses 8th grade, all 6th and 7th graders who live within East's attendance area would go to Southeast Middle. Therefore, the numbers reflected above for East Middle would be lower (6th and 7th grade enrollment would be removed) and the above numbers for Southeast Middle would be higher (6th and 7th grade enrollment From East Middle would be added to Southeast Middle). Only 8th graders living within East Middle's attendance area would be assigned to attend East Middle, and East Middle will continue to be open to other 8th graders from across the District to apply by choice.



REDISTRICTING MAPS

- **Option 2 Elementary Planning Area Maps**
 - Slide 19, Map Page 1: From Arrowpoint to Grannemann, Larimore to Grannemann, and Twillman to Arrowpoint
 - Slide 20, Map Page 2: From Jamestown to Barrington
 - Slide 21, Map Page 3: From Brown to Barrington
 - Slide 22, Map Page 4: From Cold Water to Brown
 - Slide 23, Map Page 5: From Lusher to Walker and McCurdy to Walker
 - Slide 24, Map Page 6: From McCurdy to Walker and McCurdy to Jana
 - Slide 25, Map Page 7: From Armstrong to Garrett, Garrett to McCurdy, and Garrett to McNair
- **Option 2 Middle School Planning Area Maps**
 - Slide 27, Map Page 8: From and to Southeast and East
 - Slide 28, Map Page 9: From Central to North
 - Slide 29, Map Page 10: From West to Northwest
 - Slide 30, Map Page 11: From Northwest to West

Option 2: Arrowpoint, Grannemann, Larimore, and Twillman Elementary School Attendance Areas



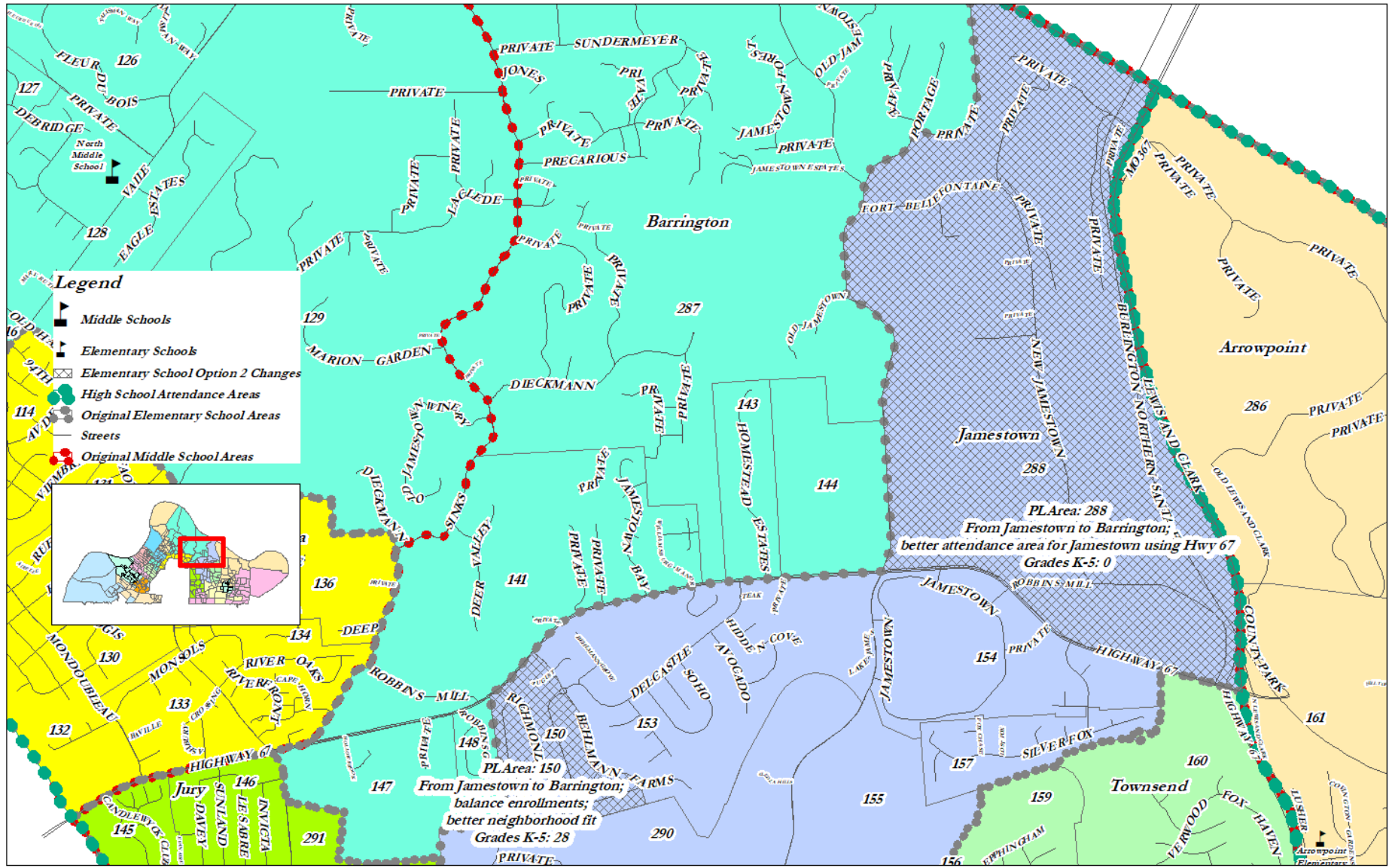
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Option 2: Jamestown and Barrington Elementary School Attendance Areas



Legend

- Middle Schools
- Elementary Schools
- Elementary School Option 2 Changes
- High School Attendance Areas
- Original Elementary School Areas
- Streets
- Original Middle School Areas



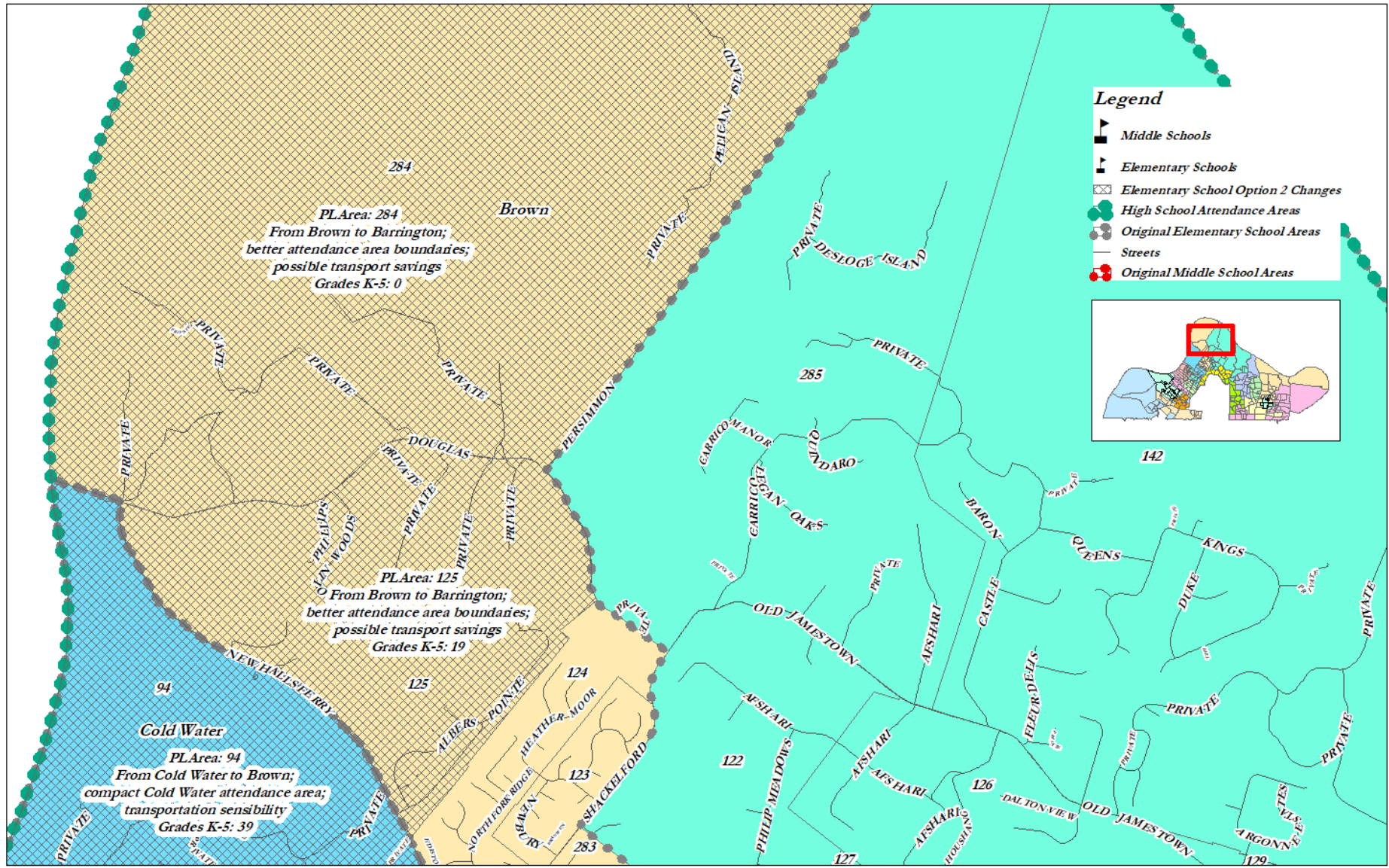
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Option 2: Brown and Barrington Elementary School Attendance Areas



PL Area: 284
From Brown to Barrington;
better attendance area boundaries;
possible transport savings
Grades K-5: 0

PL Area: 125
From Brown to Barrington;
better attendance area boundaries;
possible transport savings
Grades K-5: 19

PL Area: 94
From Cold Water to Brown;
compact Cold Water attendance area;
transportation sensibility
Grades K-5: 39



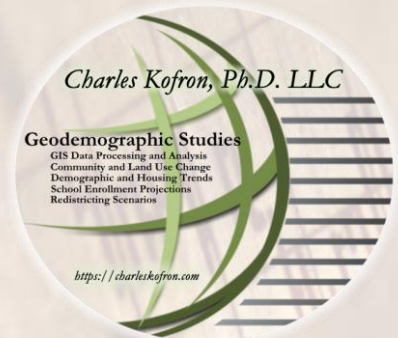
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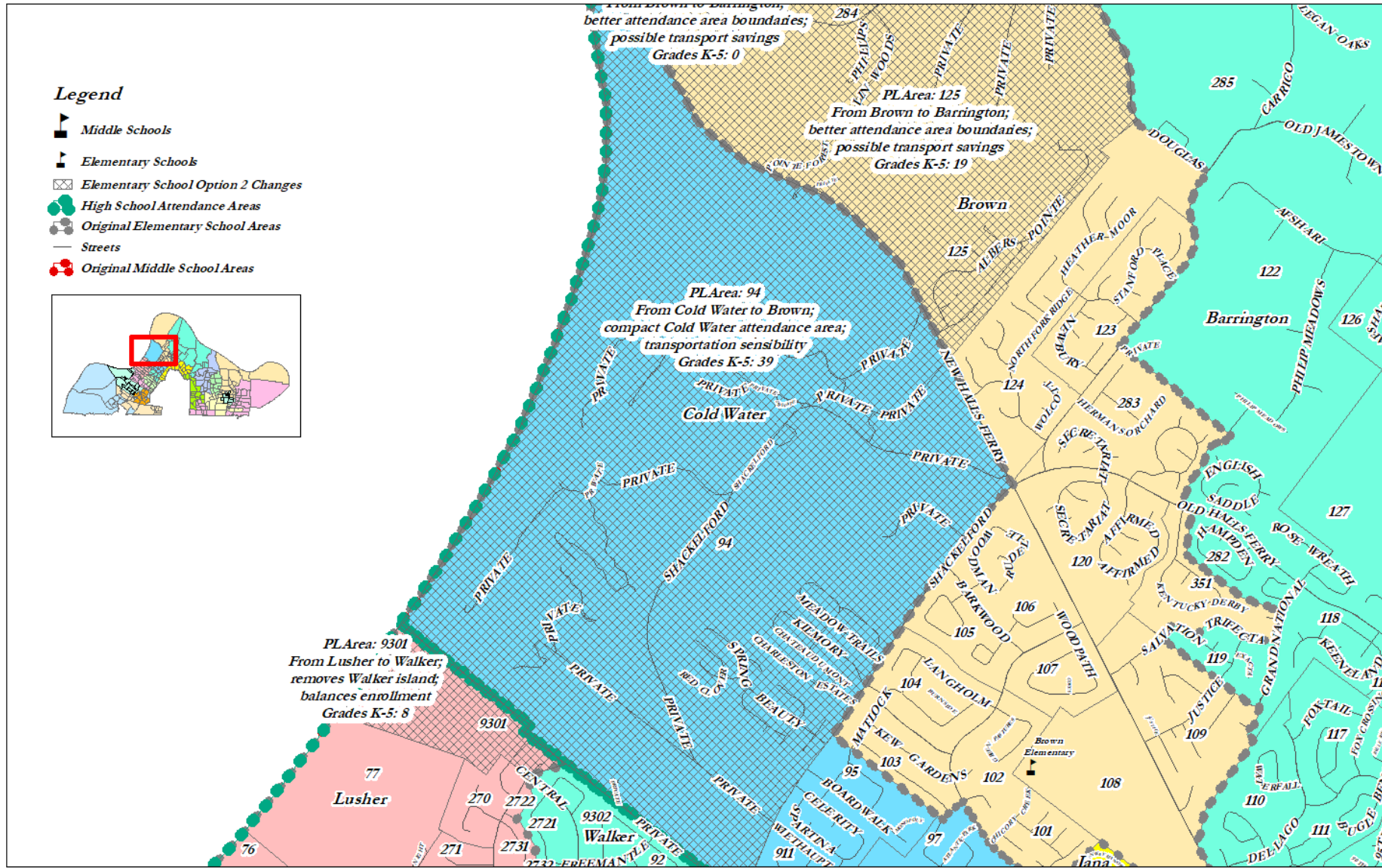
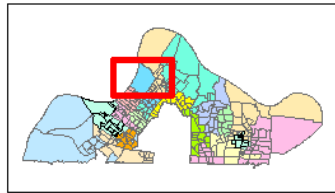
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Option 2: Cold Water and Brown Elementary School Attendance Areas



Legend

- Middle Schools
- Elementary Schools
- Elementary School Option 2 Changes
- High School Attendance Areas
- Original Elementary School Areas
- Streets
- Original Middle School Areas



1 inch = 1,333.33 feet
 0 0.075 0.15 0.225 0.3
 Miles



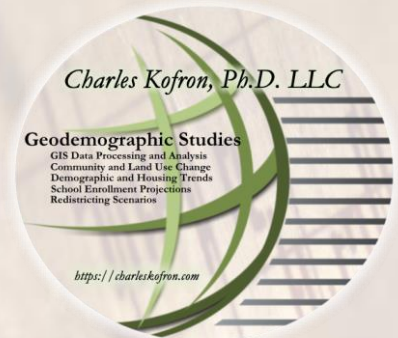
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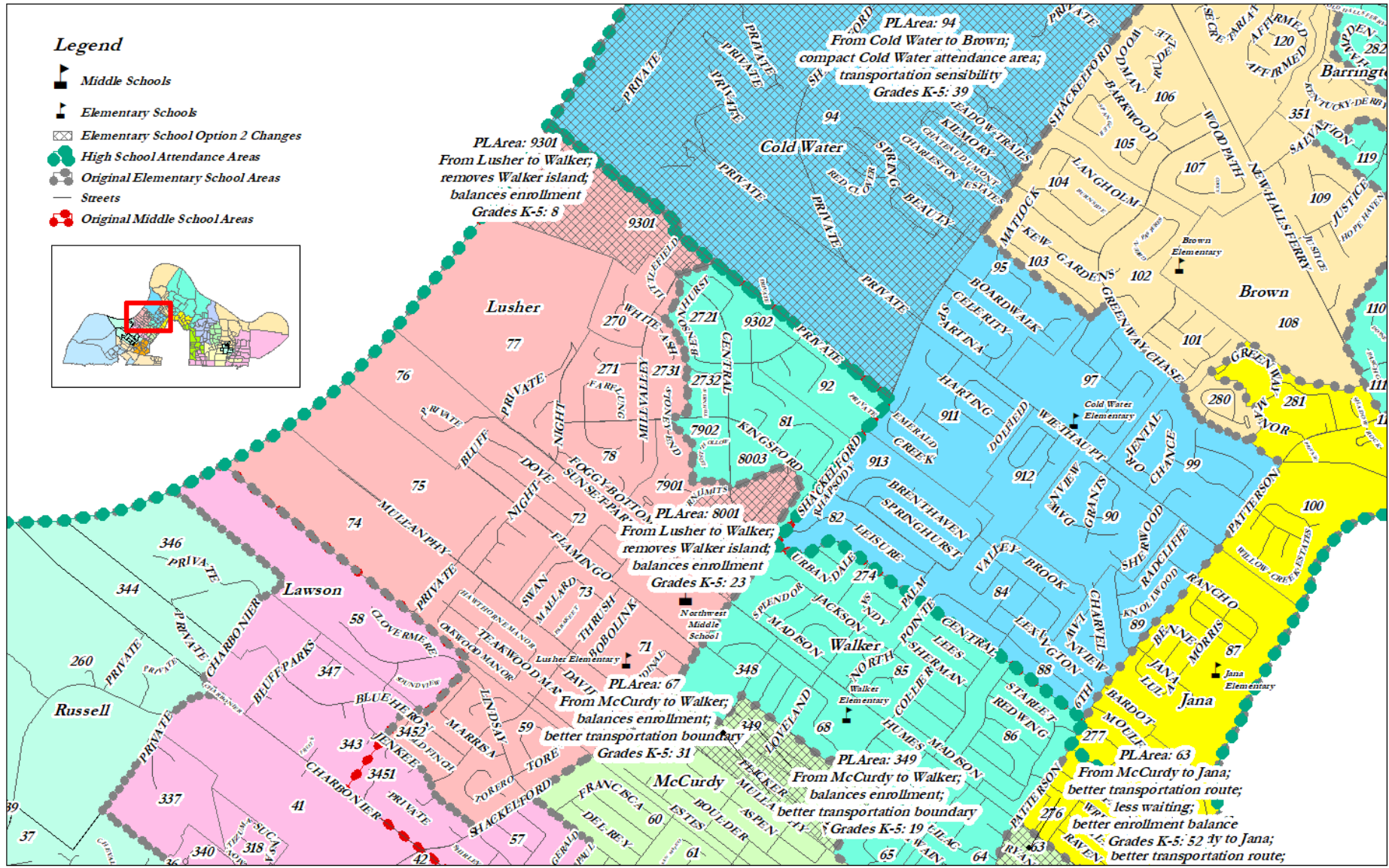
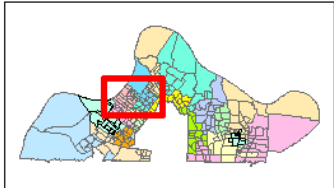
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Option 2: Lusher and Walker Elementary School Attendance Areas



Legend

- Middle Schools
- Elementary Schools
- Elementary School Option 2 Changes
- High School Attendance Areas
- Original Elementary School Areas
- Streets
- Original Middle School Areas



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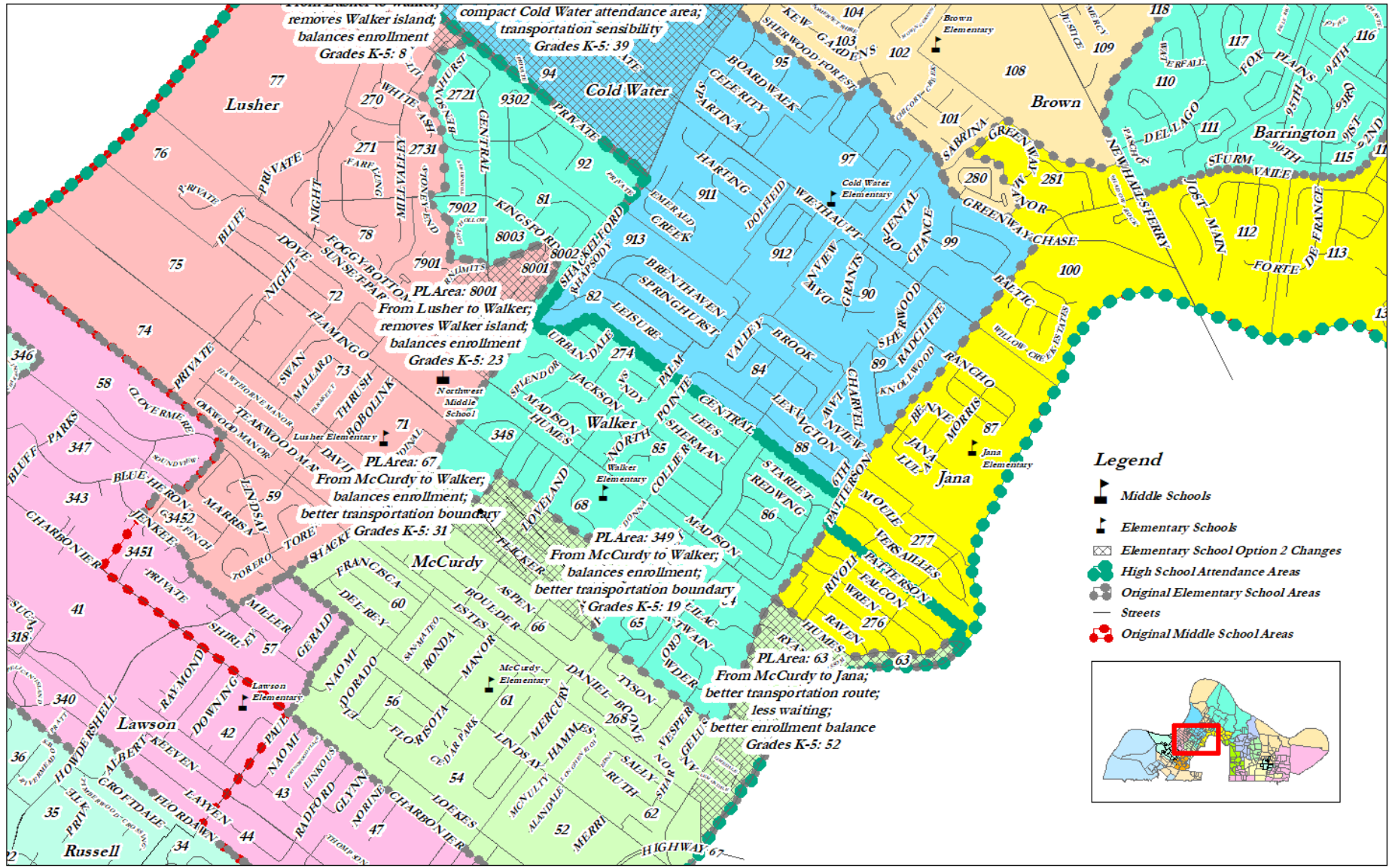
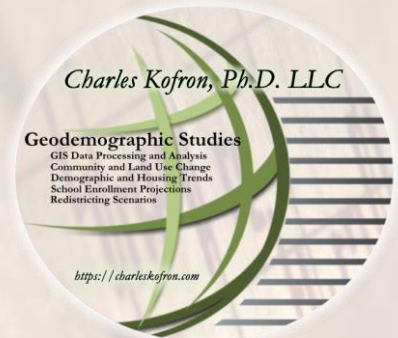
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Option 2: Jana, McCurdy, and Walker Elementary School Attendance Areas



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 Miles

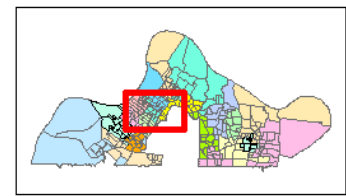


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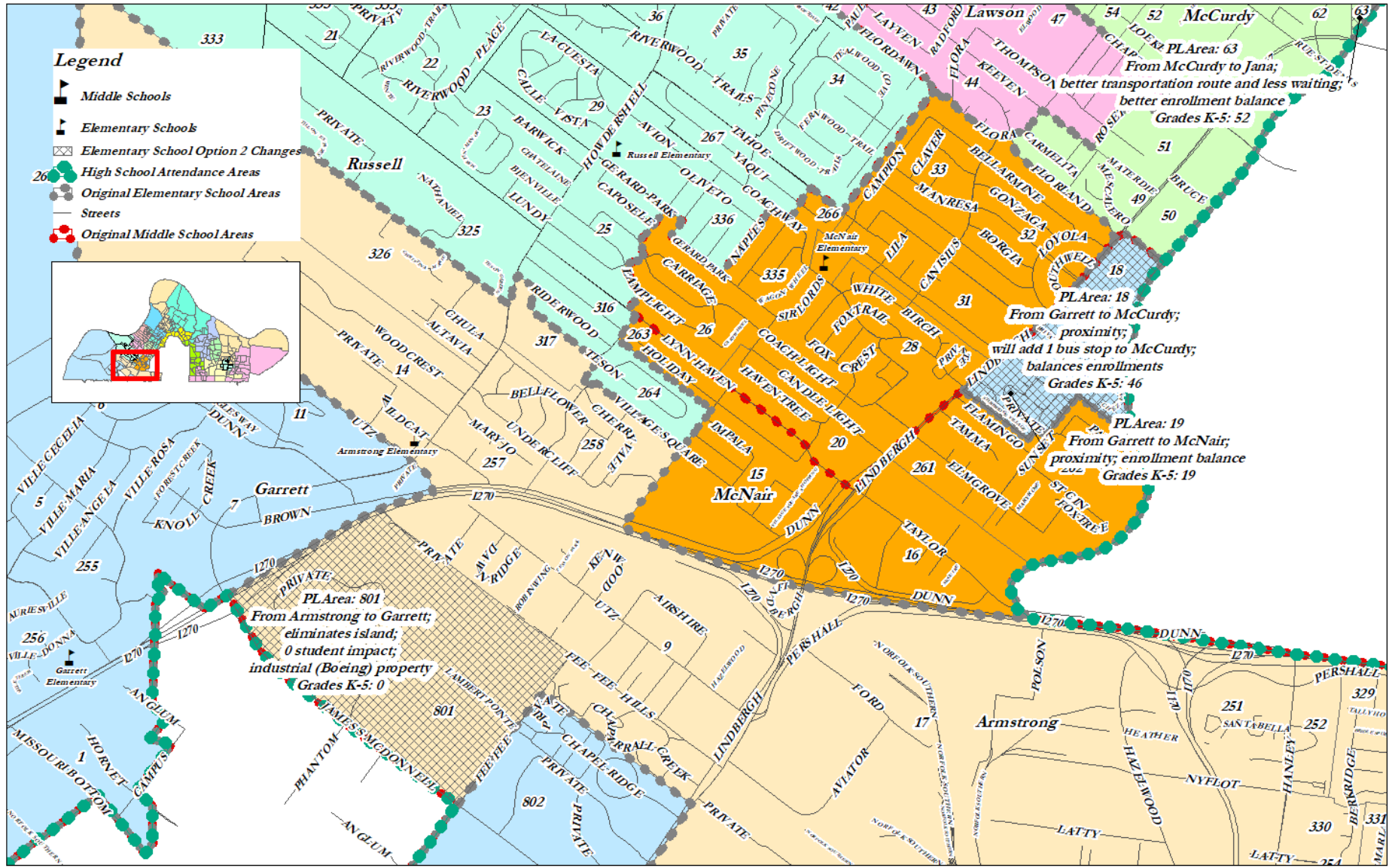
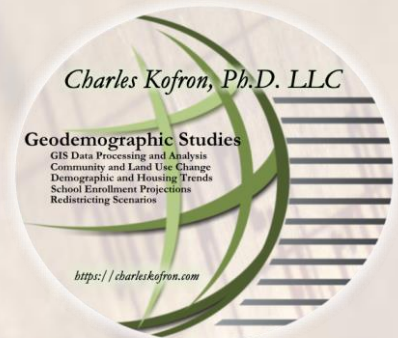


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Option 2: Armstrong, Garrett, McCurdy, and McNair Elementary School Attendance Areas



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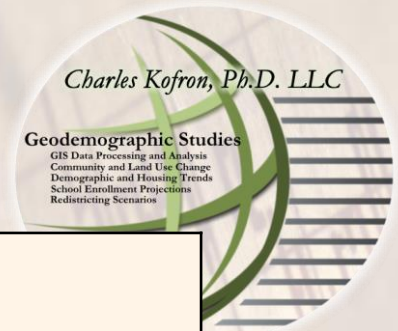


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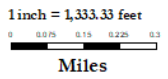
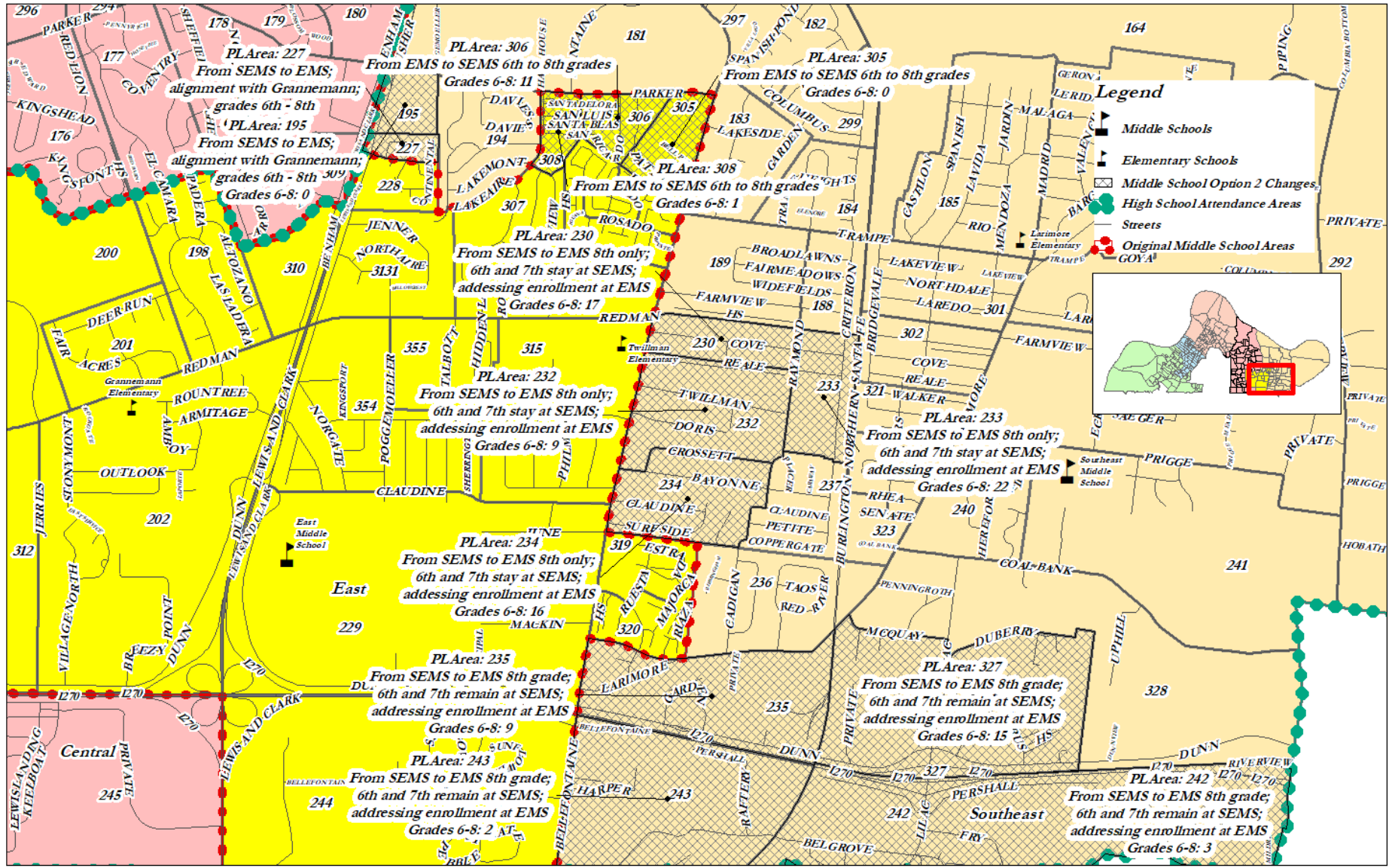
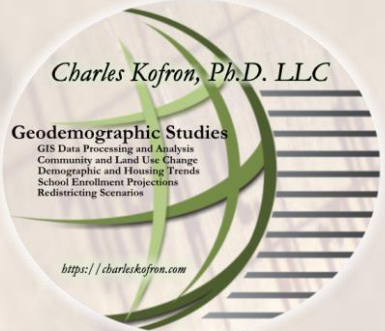
OPTION 2 ELEMENTARY COUNTS

*revised 3/11/19



Attendance Areas	Original Attendance Areas Grades K-5 Counts	Option 2 Attendance Areas Grades K-5 Counts	Optimal Capacity Enrollments at 85%	Difference Option 2 and Original Areas Grades K-5 Counts	Difference Option 2 Areas and Optimal (85%) Counts for Grades K-5	Difference Original Areas and Optimal (85%) Counts for Grades K-5	Map Page(s)	Slide Number(s)	Map Notes
Armstrong	372	372	366	0	6	6	7	26	No net change
Arrowpoint	505	440	601	-65	-161	-96	1	20	Net change from moves to Grannemann and from Twillman
Barrington	324	371	436	47	-65	-112	2,3	21,22	Net change from Jamestown and Brown
Brown	292	312	384	20	-72	-92	3,4	22,23	Net change from Brown to Barrington and from Cold Water to Brown
Cold Water	423	384	442	-39	-58	-19	4	23	Net change from Cold Water to Brown
Garrett	383	318	354	-65	-36	29	7	26	Net change to McCurdy and McNair
Grannemann	281	350	491	69	-141	-210	1	20	Net change from Arrowpoint and Larimore
Jamestown	361	333	416	-28	-83	-55	2	21	Net change from Jamestown to Barrington
Jana	324	376	456	52	-80	-132	6	25	Move from McCurdy to Jana
Jury	388	388	429	0	-41	-41			No change
Keeven	342	342	405	0	-63	-63			No change
Larimore	411	407	454	-4	-47	-43	1	20	Move to Grannemann
Lawson	382	382	411	0	-29	-29			No change
Lusher	396	365	409	-31	-44	-13	5	24	Net change from Lusher to Walker
McCurdy	445	389	378	-56	11	67	6	25	Net change to Walker and from Jana
McNair	385	404	406	19	-2	-21	7	26	Move from Garrett to McNair
Russell	379	379	423	0	-44	-44			No change
Townsend	307	307	357	0	-50	-50			No change
Twillman	321	321	515	0	-194	-194	1	20	No net change
Walker	329	410	388	81	22	-59	6	25	Net change from Lusher and McCurdy
Totals	7350	7350	8521	0	-1171	-1171			

Option 2: East and Southeast Middle School Attendance Areas



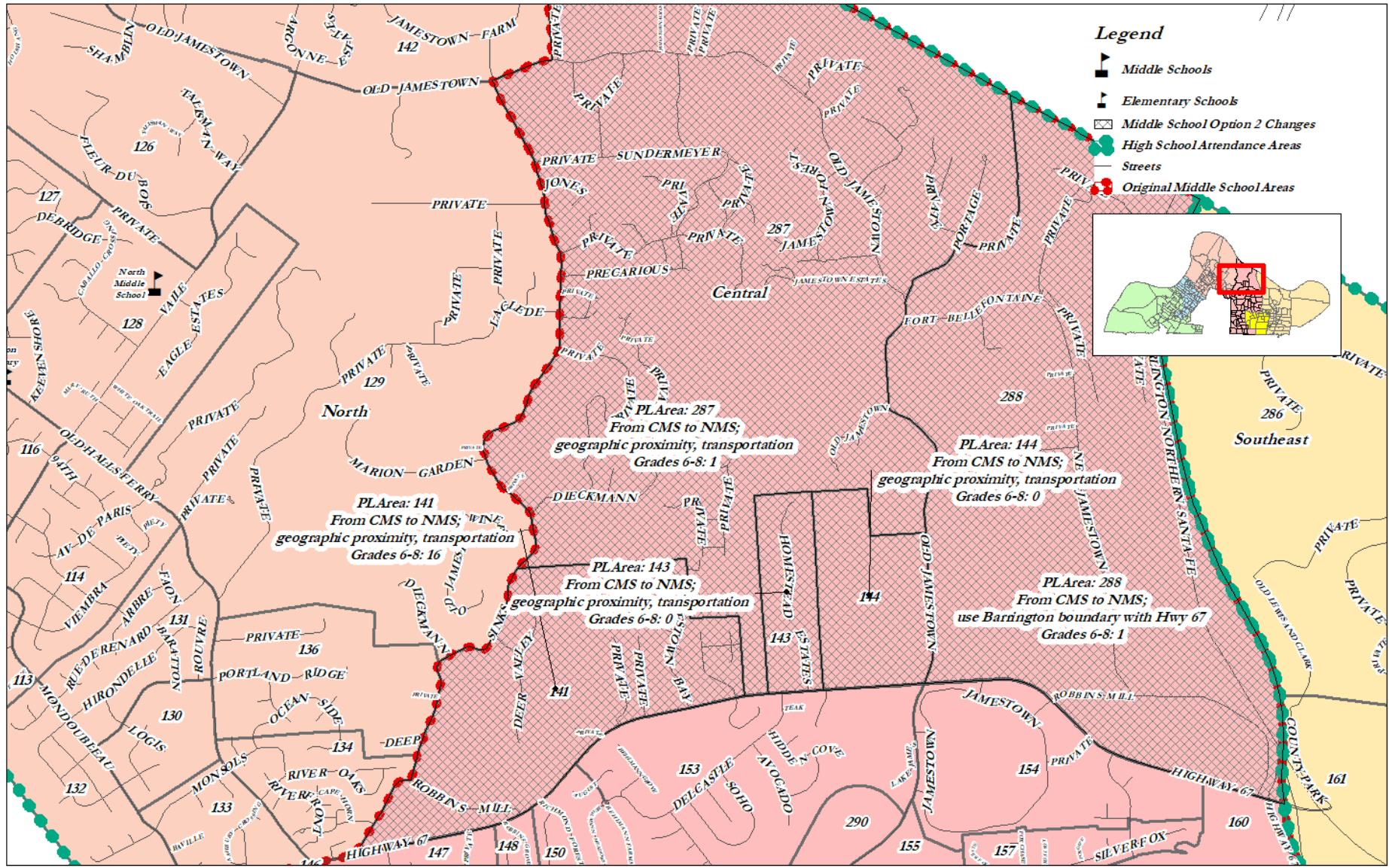
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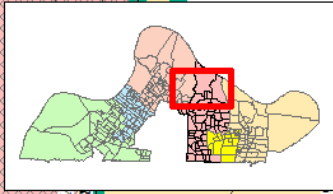
Demographic Services for Redistricting
Page 8

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Date: February 19, 2019
Hazelwood School District
TRJ Architects
St. Louis County GIS Center

Option 2: Central and North Middle School Attendance Areas



- Legend**
- Middle Schools
 - Elementary Schools
 - Middle School Option 2 Changes
 - High School Attendance Areas
 - Streets
 - Original Middle School Areas



1 inch = 1,333.33 feet
 0 0.075 0.15 0.225 0.3
 Miles



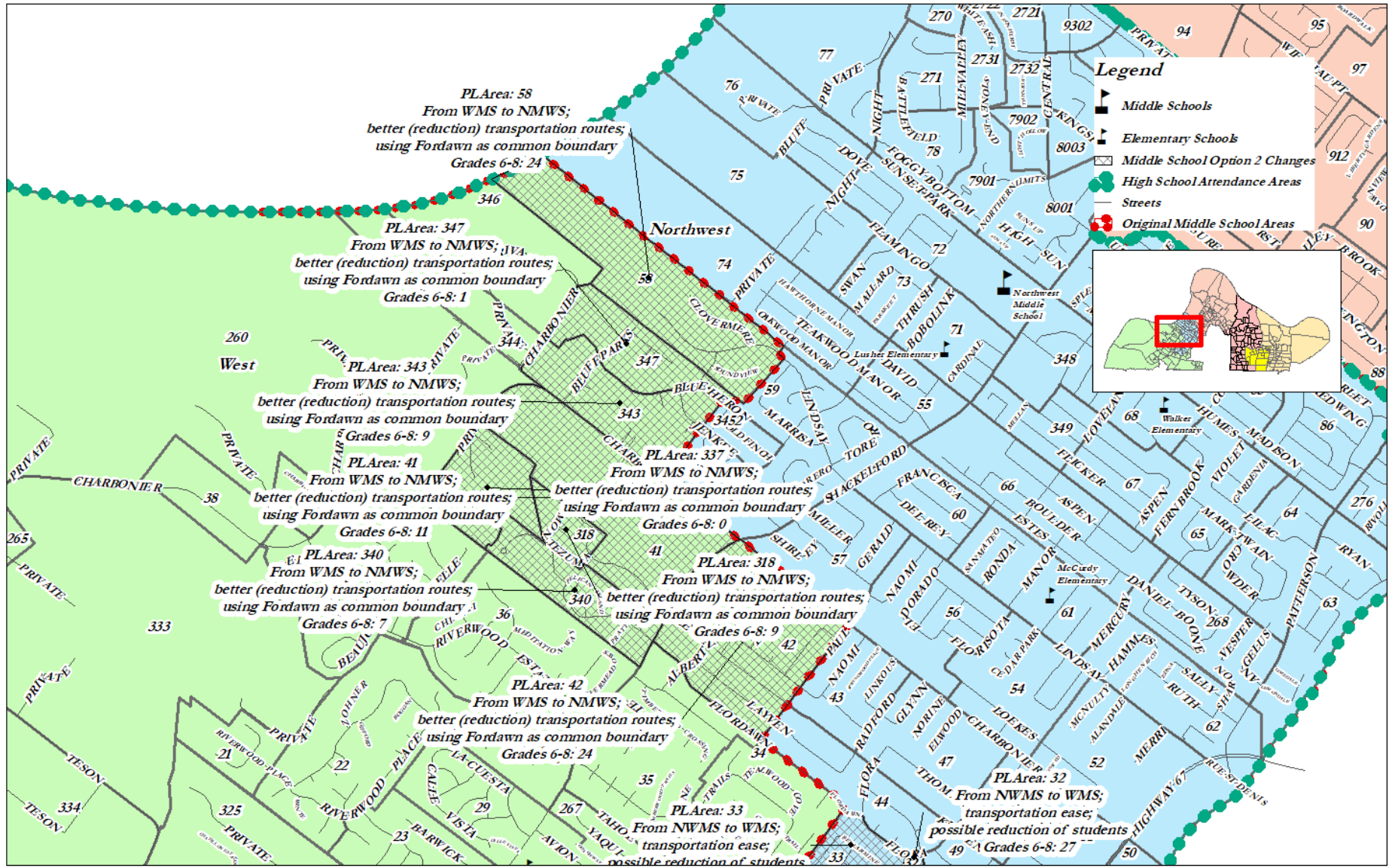
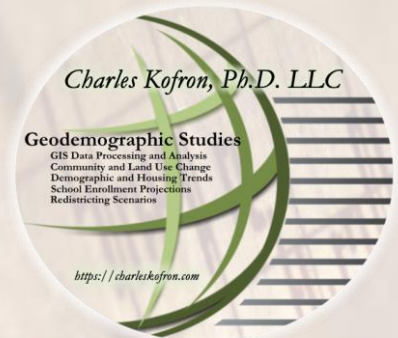
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Demographic Services for Redistricting
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Option 2: West and Northwest Middle School Attendance Areas



1 inch = 1,333.33 feet
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 Miles



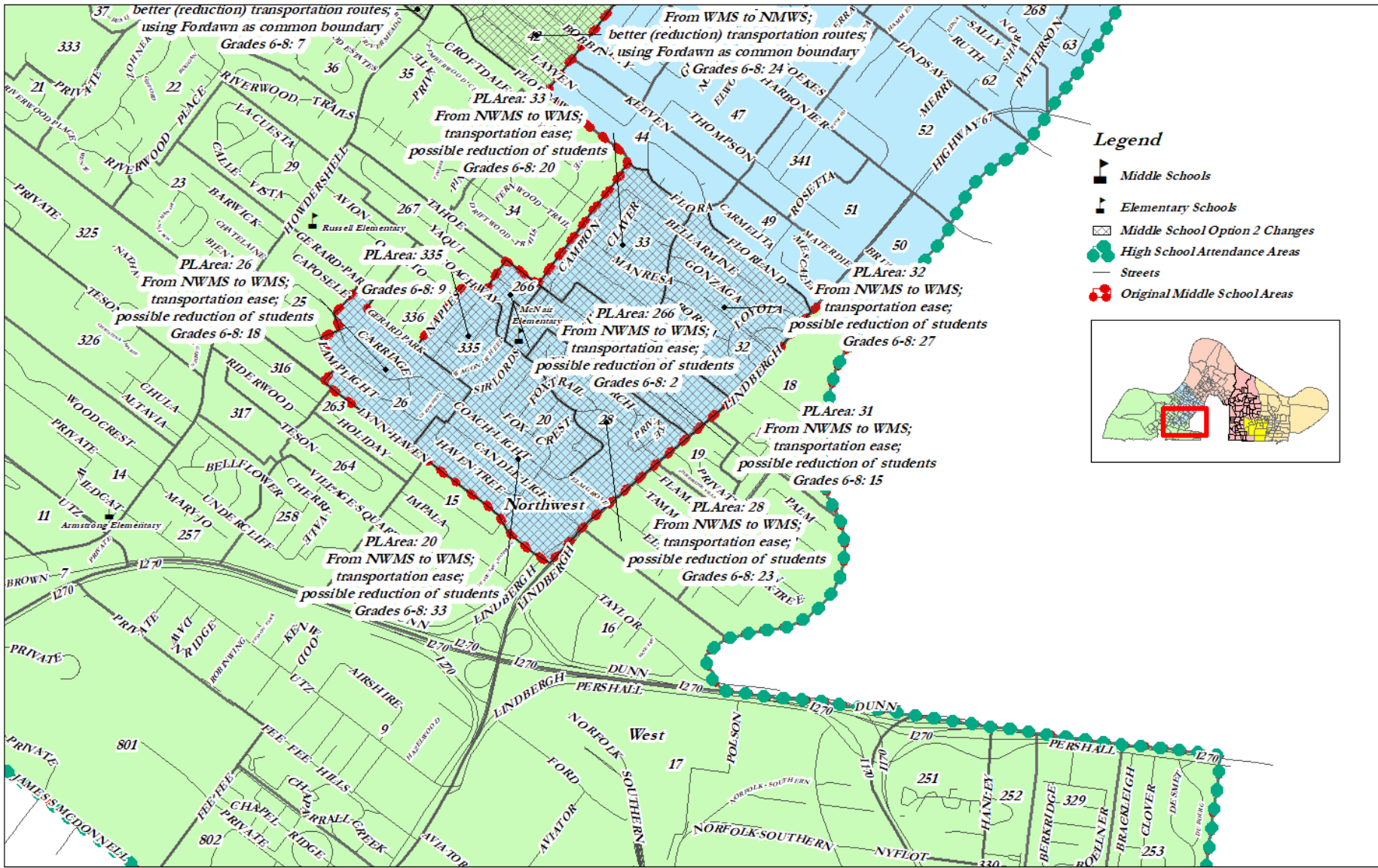
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Demographic Services for Redistricting
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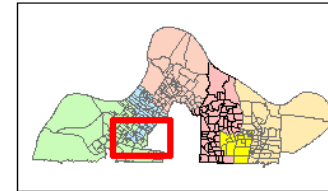
Charles Kofron, Ph.D. LLC
 Date: February 19, 2019
 Hazelwood School District
 TRJ Architects
 St. Louis County GIS Center

Option 2: Northwest and West Middle School Attendance Areas



Legend

- Middle Schools
- Elementary Schools
- Middle School Option 2 Changes
- High School Attendance Areas
- Streets
- Original Middle School Areas



1 inch = 1,333.33 feet
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 Miles

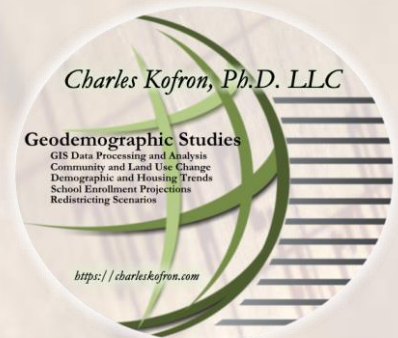


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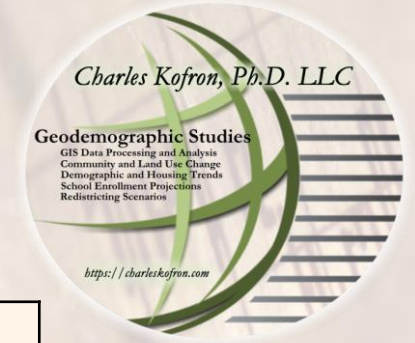


Demographic Services for Redistricting
 Page 11

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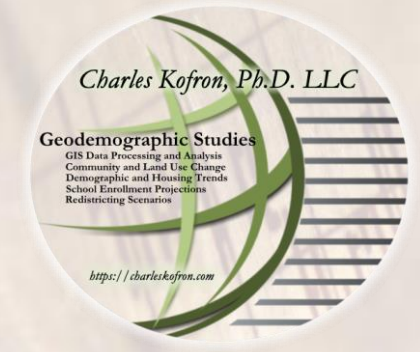
OPTION 2 MIDDLE SCHOOL COUNTS



Middle School Areas	Original Grade 6-8 Counts	Option 2 Grade 6-8 Counts	Difference Option 2 and Original Grade 6-8 Counts	Map Page(s)	Slide Number(s)	Map Notes
Central	766	748	-18	9	30	Move to include all of Barrington attendance area to NMS
East	231	319	88	8	29	Alignment to modified Grannemann and original Twillman boundaries
North	774	792	18	9	30	Move from CMS to NMS
Northwest	867	805	-62	10	31	Net change from WMS
Southeast	540	452	-88	8	29	Net change from SEMS to EMS
West	714	776	62	11	32	Net change from NWMS
Totals	3892	3892	0			

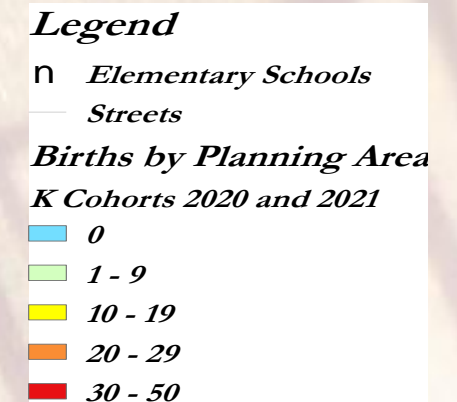
Original Middle School Areas	6th graders living in attendance area**	7th graders living in attendance area**	8th graders living in attendance area**	Row Total
East	73	79	79	231
Southeast	219	165	156	540
Column Total	292	244	235	771

*As with all attendance areas, the student counts for East and Southeast reflect 6th, 7th, and 8th grade enrollment who live in addresses that would be assigned to those schools. However, since East Middle only houses 8th grade, all 6th and 7th graders who live within East’s attendance area would go to Southeast Middle. Therefore, the numbers reflected above for East Middle would be lower (6th and 7th grade enrollment would be removed) and the above numbers for Southeast Middle would be higher (6th and 7th grade enrollment From East Middle would be added to Southeast Middle). Only 8th graders living within East Middle’s attendance area would be assigned to attend East Middle, and East Middle will continue to be open to other 8th graders from across the District to apply by choice.

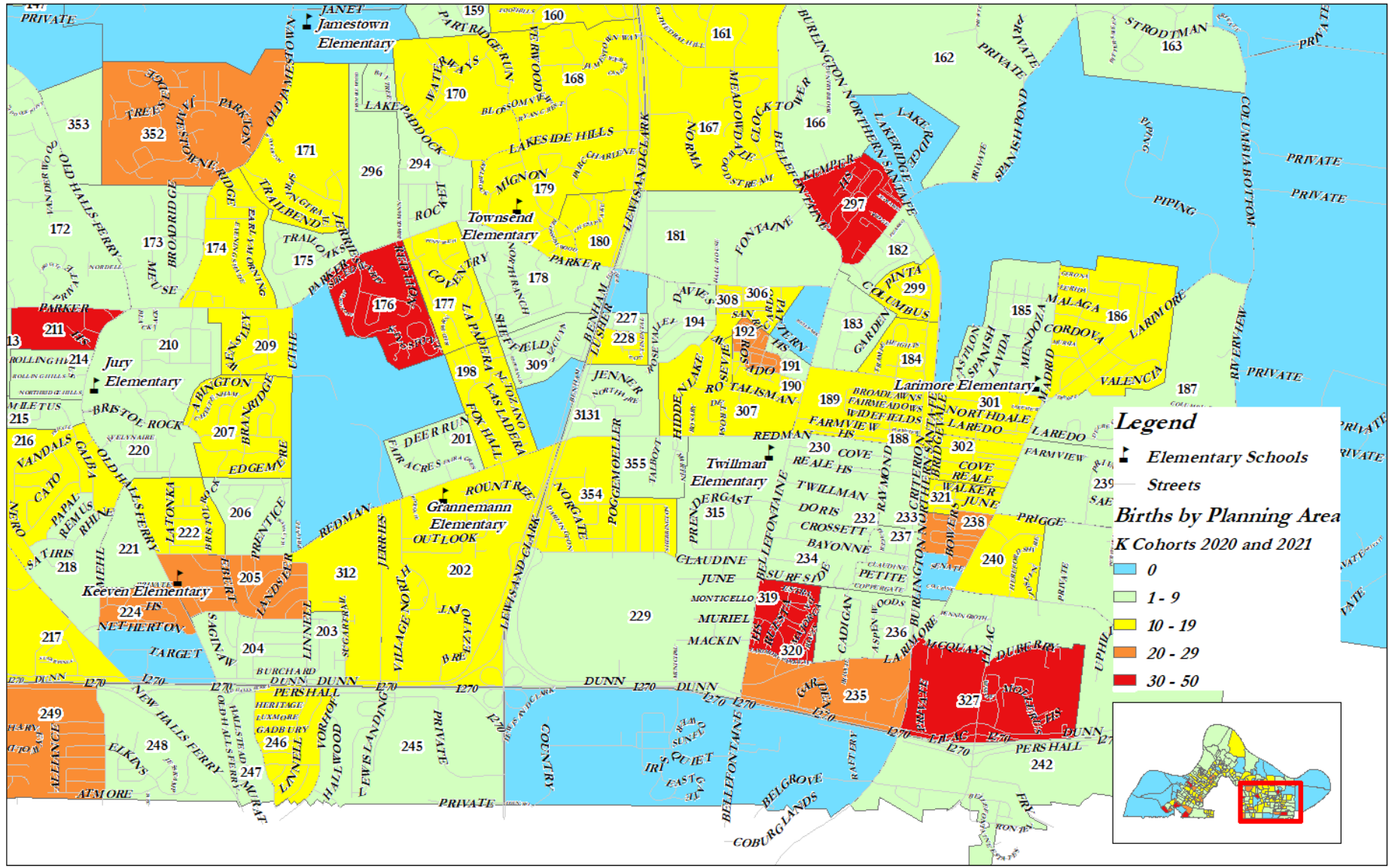
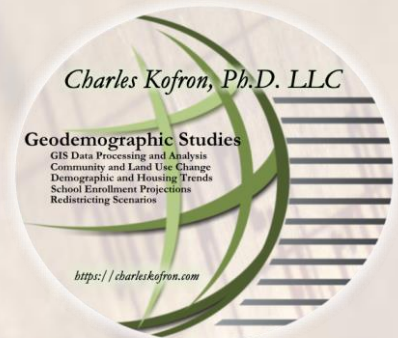


BIRTH DATA FOR PRE-K PLANNING

- Kindergarten Cohorts Assigned by Year of Eligibility
- Birth Address Location Data Geocoded to Parcels and Street Centerlines
- Geocoded Births Overlaid and Counted by Planning Areas
- Kindergarten Cohorts for School Years 2020 and 2021
 - Total 2020 and 2021 births—2804
 - Planning areas color coded using 5 categories



Births Categorized by Quantity and Planning Area; Southeast Section



Legend

- ▣ Elementary Schools
- Streets

**Births by Planning Area
K Cohorts 2020 and 2021**

- 0
- 1 - 9
- 10 - 19
- 20 - 29
- 30 - 50

1 inch = 2,000 feet
0 0.1 0.2 0.3 0.4
Miles



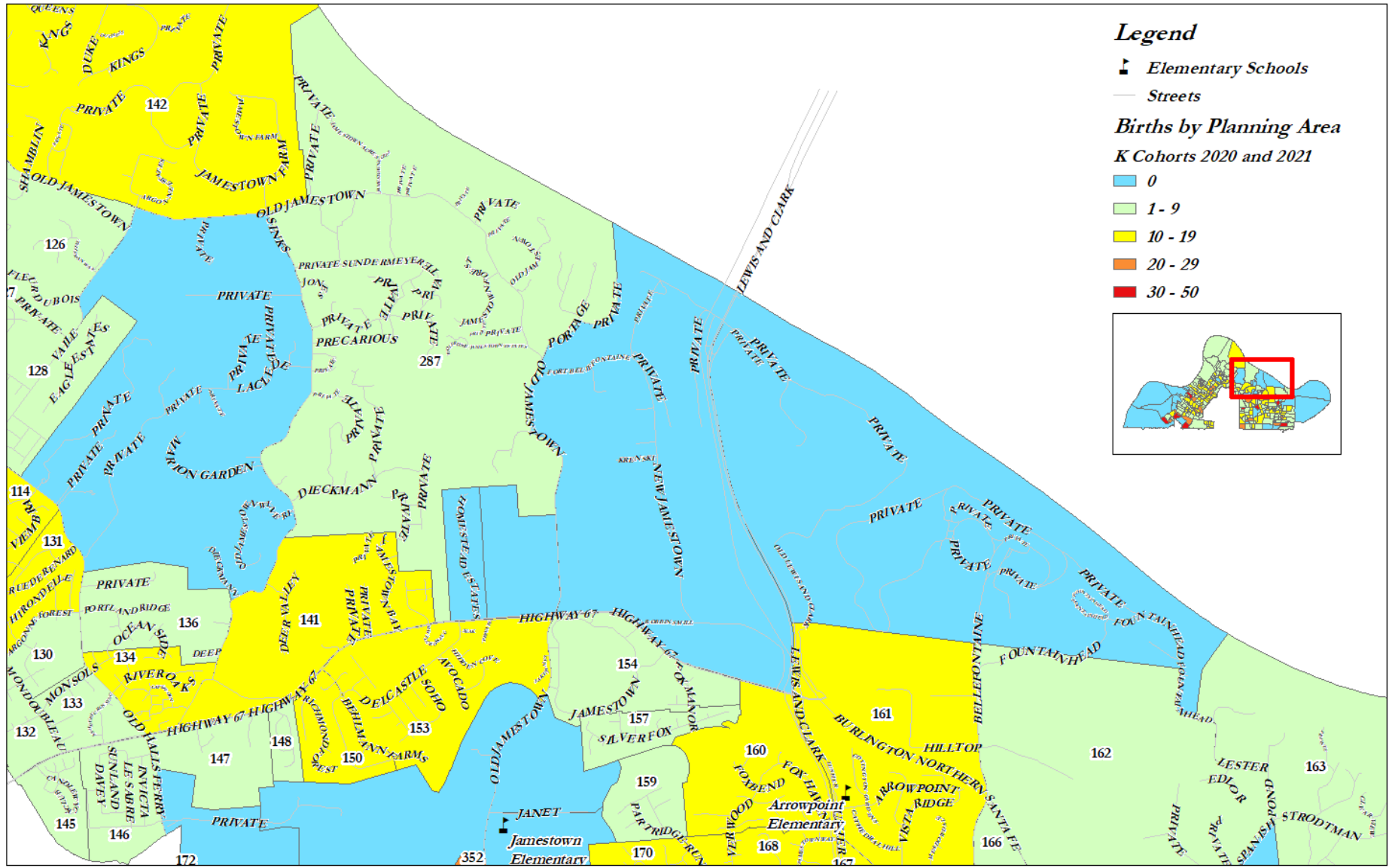
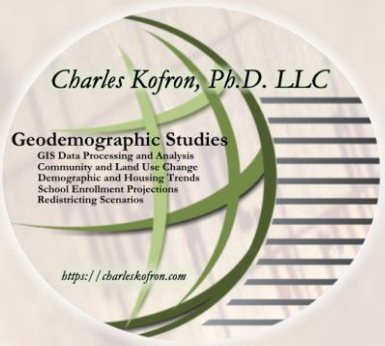
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Demographic Services for Redistricting
Page 1

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Date: February 19, 2019
Hazelwood School District
Missouri Department of Health
and Senior Services

Births Categorized by Quantity and Planning Area; Northeast Section

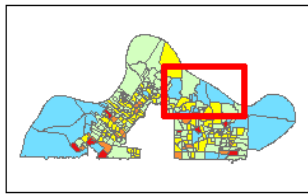


Legend

- Elementary Schools
- Streets

Births by Planning Area
K Cohorts 2020 and 2021

- 0
- 1 - 9
- 10 - 19
- 20 - 29
- 30 - 50



1 inch = 2,000 feet
 0 0.1 0.2 0.3 0.4
 Miles



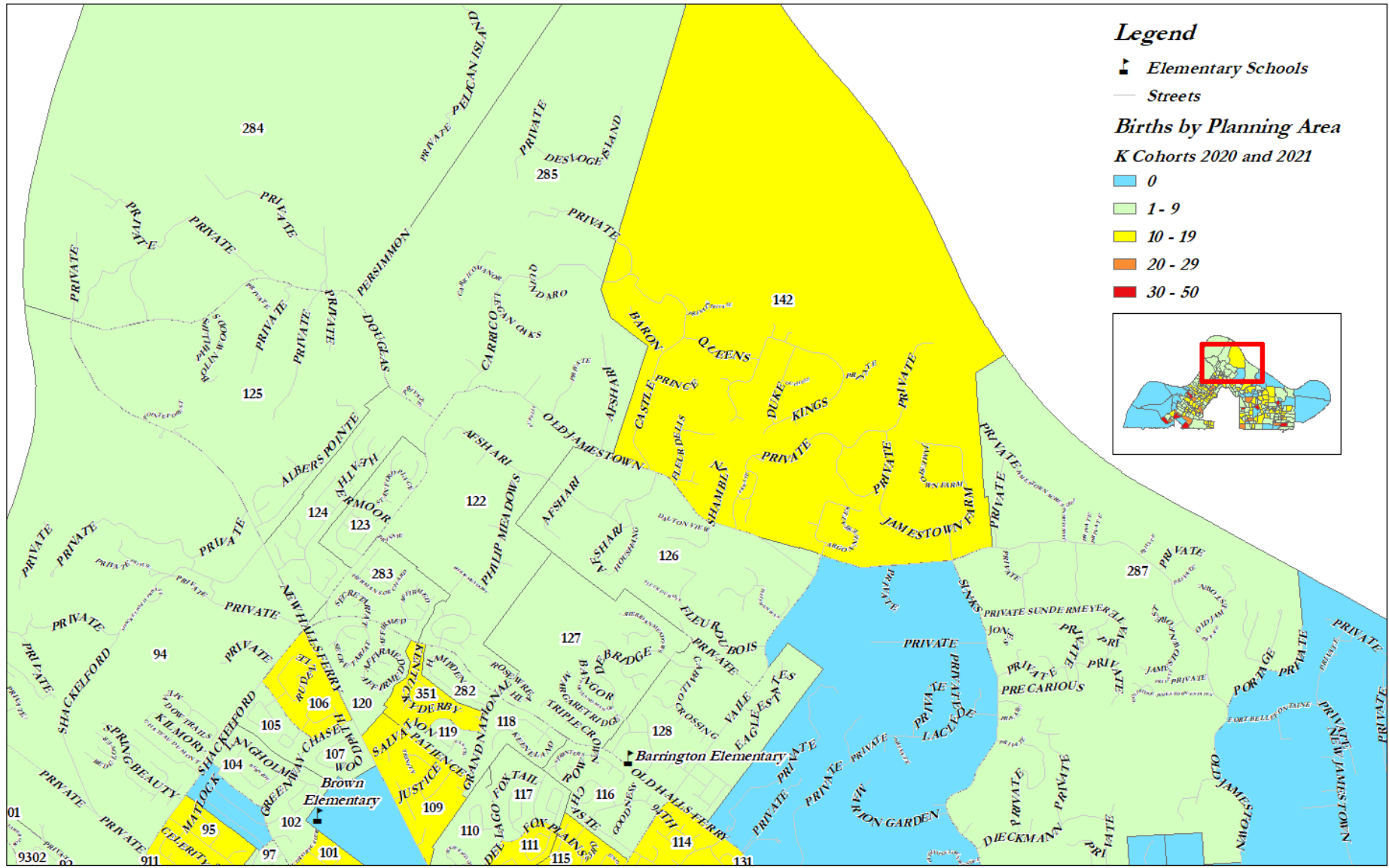
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Demographic Services for Redistricting
 Page 2

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 Date: February 19, 2019
 Hazelwood School District
 Missouri Department of Health and Senior Services

Births Categorized by Quantity and Planning Area; North Section



Legend

- Elementary Schools
- Streets

Births by Planning Area
K Cohorts 2020 and 2021

- 0
- 1 - 9
- 10 - 19
- 20 - 29
- 30 - 50

1 inch = 2,000 feet
0 0.1 0.2 0.3 0.4
Miles



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Page 3

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Missouri Department of Health and Senior Services

Births Categorized by Quantity and Planning Area; Northwest Section



Legend

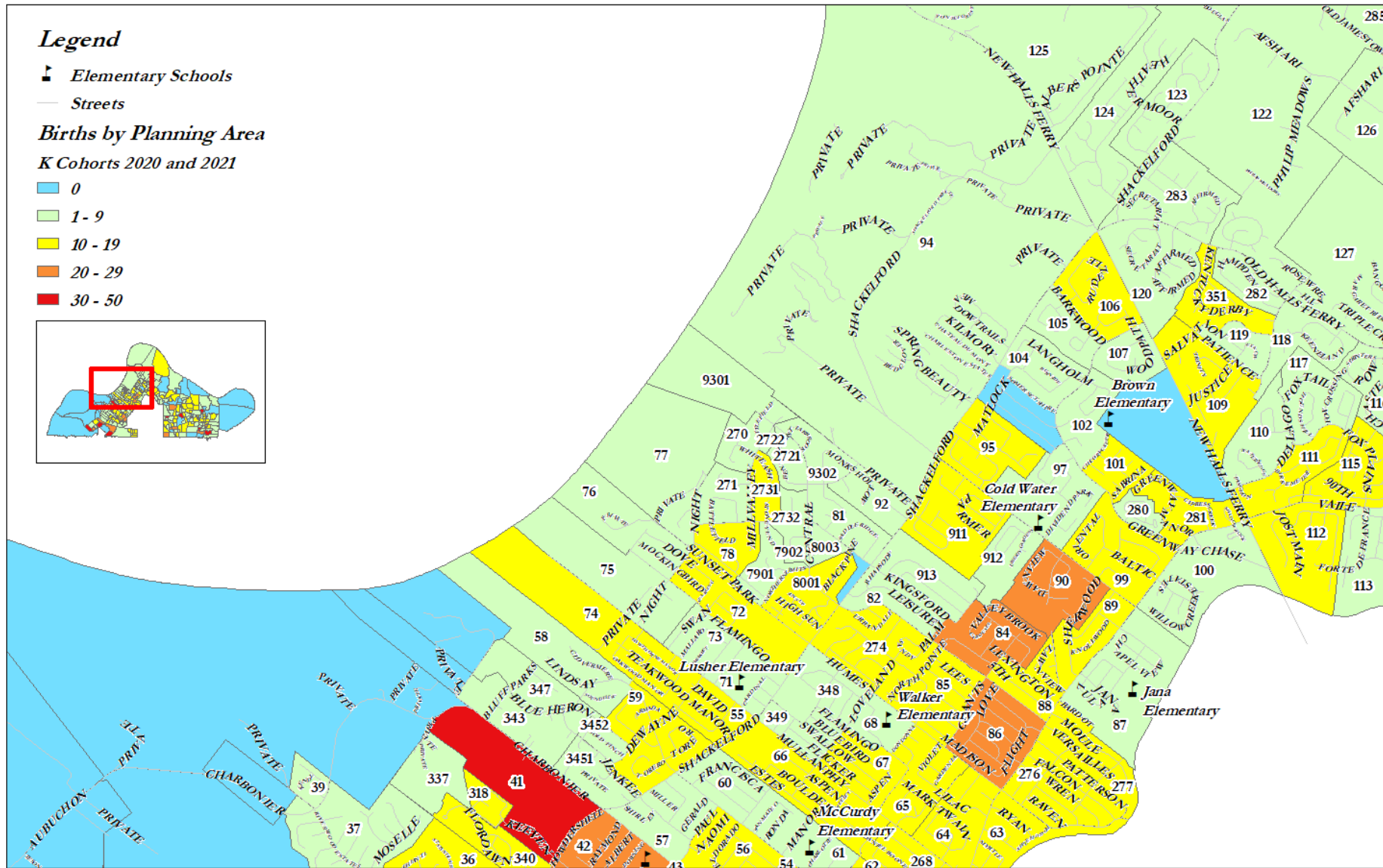
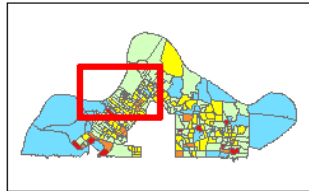
🏫 Elementary Schools

— Streets

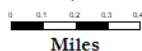
Births by Planning Area

K Cohorts 2020 and 2021

- 0
- 1 - 9
- 10 - 19
- 20 - 29
- 30 - 50



1 inch = 2,000 feet



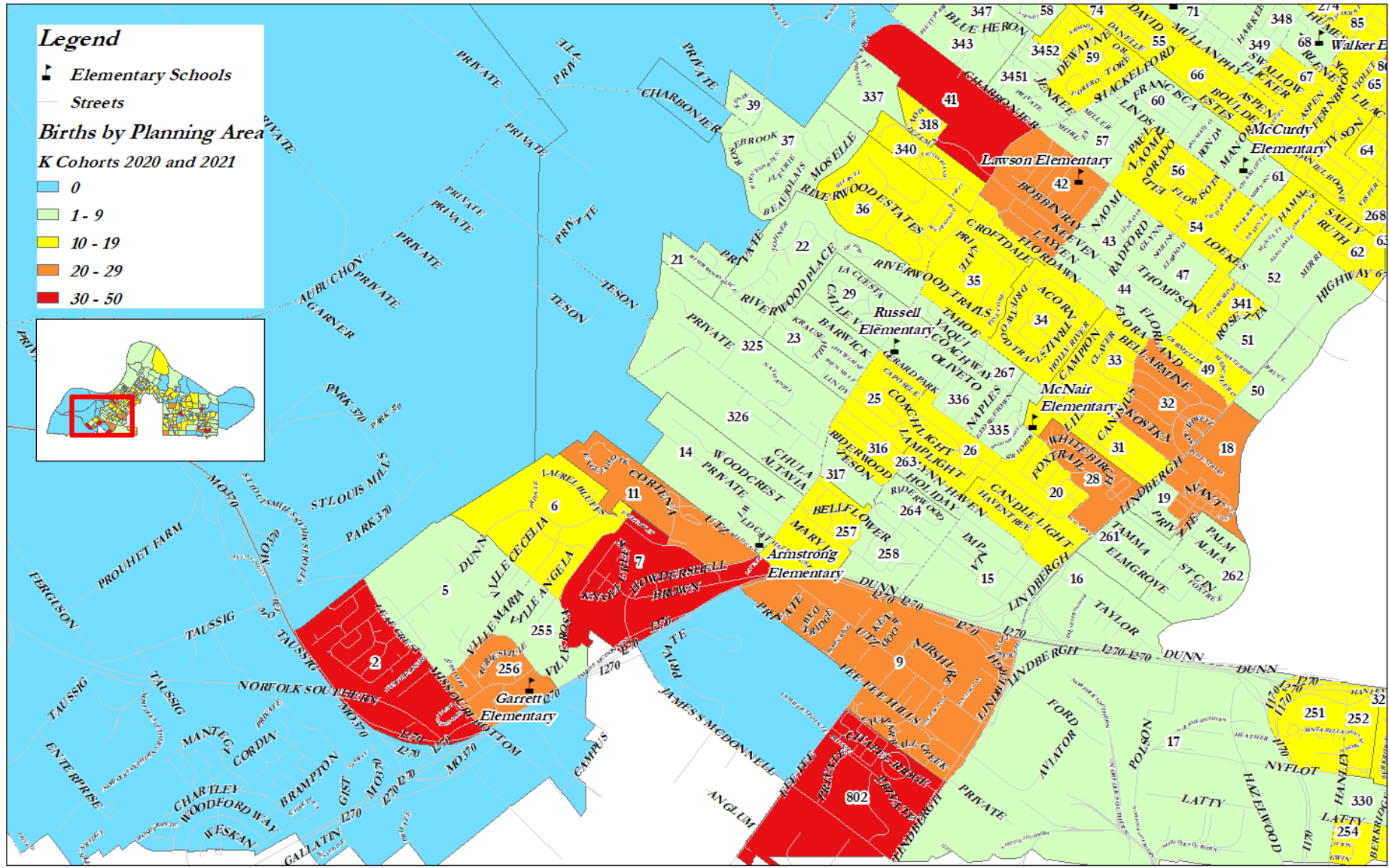
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Demographic Services for Redistricting
Page 4

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Date: February 19, 2019
Hazelwood School District
Missouri Department of Health
and Senior Services

Births Categorized by Quantity and Planning Area; West Section

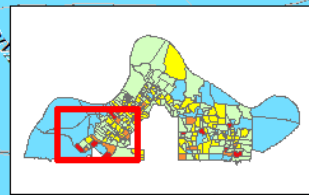


Legend

- Elementary Schools
- Streets

Births by Planning Area
K Cohorts 2020 and 2021

- 0
- 1 - 9
- 10 - 19
- 20 - 29
- 30 - 50



Original Elementary Attendance Areas	2020 and 2021 K Cohort Birth Count
Armstrong	131
Arrowpoint	183
Barrington	116
Brown	103
Cold Water	137
Garrett	231
Grannemann	217
Jamestown	134
Jana	135
Jury	147
Keeven	140
Larimore	129
Lawson	151
Lusher	127
McCurdy	153
McNair	130
Russell	128
Townsend	109
Twillman	92
Walker	111

1 inch = 2,000 feet
0 0.1 0.2 0.3 0.4
Miles

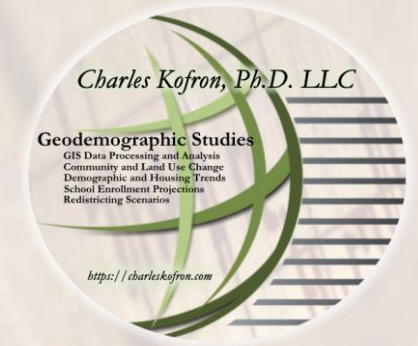


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Missouri Department of Health and Senior Services



QUESTIONS AND ANSWERS

What are the major differences between Option 1 and Option 2?

A – Option 1 involves limited changes intended to eliminate non-contiguous (“island”) areas and help transportation efficiency with little student movement.

Option 2 involves broader changes intended to balance school enrollments and improve transportation efficiency.

Why is 85% capacity used in the elementary counts and what building areas do they include?

A – Building capacities were developed utilizing Missouri School Improvement Program (MSIP) guidelines. The capacity figures only include classrooms and do not include specialty areas such as gymnasiums, art, music, etc.



QUESTIONS AND ANSWERS

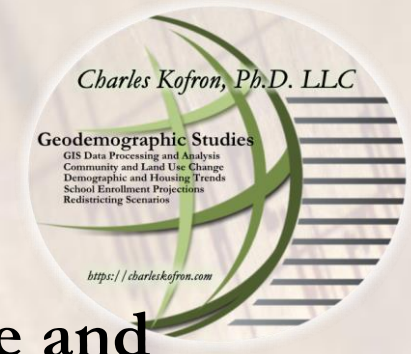
What is the financial impact of Option 1 versus Option 2?

A – For both options the potential exists for transportation efficiency that would reduce transportation costs as well as travel times in some of the boundaries. There is more opportunity for transportation efficiency with Option 2.

A better balance of schools also has the potential to smooth enrollment and staffing, but that is always a year-to-year decision based on actual enrollment and staffing within Board policy.

How many students would actually have to change schools?

A – A chart is being developed and will be posted on the Redistricting page of the district's website. This is anticipated to be posted before the first Community Engagement Open House on February 28th.



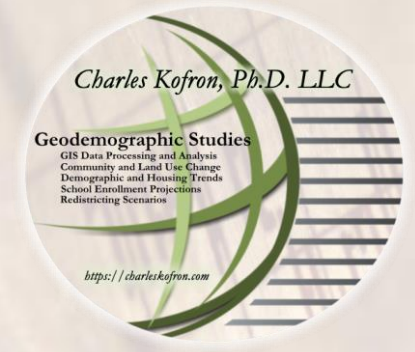
QUESTIONS AND ANSWERS

Can I see how elementary schools would progress to each middle and high school?

A – A chart is being developed and will be posted on the Redistricting page of the district’s website. This is anticipated to be posted before the first Community Engagement Open House on February 28th.

I understand that the numbers in the presentation are based on student addresses, but can I see the actual enrollment at each school?

A – A chart is being developed and will be posted on the Redistricting page of the district’s website. This is anticipated to be posted before the first Community Engagement Open House on February 28th.



QUESTIONS AND ANSWERS

Why does the study use student address and birth rate data?

A – This data is used for consistency. It is not impacted by fluctuations in enrollment or mobility (students who move in and out of the district).

What do the changes for East Middle School mean for the 8th grade program?

A – Nothing has changed for this program. The boundary changes serve to clarify the boundaries for East Middle School as they have been adjusted each of the last two years.



QUESTIONS AND ANSWERS

Why is Pre-K birth rate information included?

A – Pre-K planning information was included for identification of potential future enrollments in Kindergarten as well as the Early Childhood program.

What are the next steps?

A – Please see the next two slides.



PATH FORWARD

- Board Retreat – Preliminary Presentation – January 11, 2019
- Board Retreat – Revised Presentation – February 8, 2019
- Regular Board Meeting Presentation – February 26, 2019
- Community Engagement Open Houses – February/March, 2019
 - Additional information on next slide
- Update at Regular Board Meeting – March 5, 2019
- Board Discussion on Feedback and Consideration – April 8, 2019
- Board Action – April 16, 2019
- Consideration of 5-year Study Schedule – 2023-24

COMMUNITY ENGAGEMENT OPEN HOUSES



- February 28 - 5:00p.m. – 6:30p.m. at Central High School library
- March 4 - 5:00p.m. – 6:30p.m. at West High School library
- March 12 - 5:00p.m. – 6:30p.m. at East High School library

Open House/Map Gallery Walk Summary

- All events will be similar in nature; there is no need to attend all three. You may attend at any time between 5:00 p.m. – 6:30 p.m. (no formal presentations will be given)
- We will have poster-sized maps for patrons to view
- Board members, Administrators, and Consultants will be available to answer questions
- Feedback forms will be available to share your thoughts/concerns with the Board
- If you are unable to attend, please visit our website at www.Hazelwoodschoools.org, then click on the “Redistricting” tab to view maps. To share feedback with Board members, click on this link <http://bit.ly/HSDRedistricting>.

QUESTIONS