

Density Density Density

5/8 mile radius or 3/4 mile radius

Its all about who draws the lines!

South of the track and north of the track in total are equal density plus/minus.

Add 16 north of track

305 students divide by 2,698 housing units = 0.1130

Minus 16 south of track

359 students divided by 3,182 housing units = 0.1128

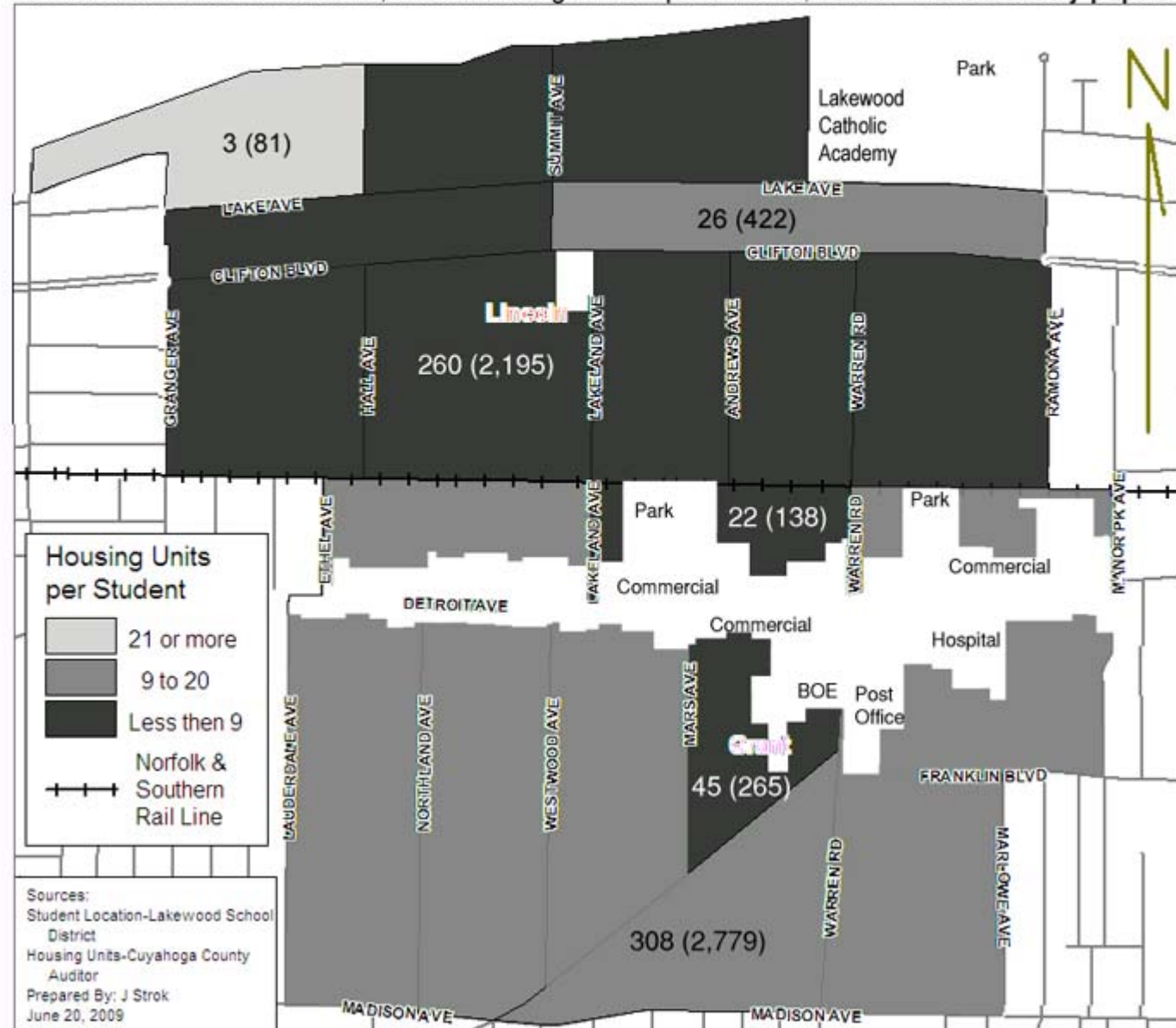
This according to the classification on the chart makes both north and south of the track equate to the highest density. In fact, only 11 students need be added to north of tracks to equal highest density for the entire area.

Graphics are attached, but this time let someone else draw the lines.

**THE NUMBERS ARE CORRECT AND THE DENSITY IS ACCURATE
TO THE THIRD DECIMAL POINT. IT'S ALL ABOUT WHO GETS TO
DRAW THE LINES!**

Housing and Student Density, Lincoln and Grant boundaries
Presented as Enrolled Students, actual housing units in parenthesis, darker=more densely populated

May 2009
Corrected September 2009



I had originally posted and was going to be done with it and I was even told by a friend it would be better to not go back and look at the one-sided response (they had). I should have listened to that friend, but since I looked, here we go.

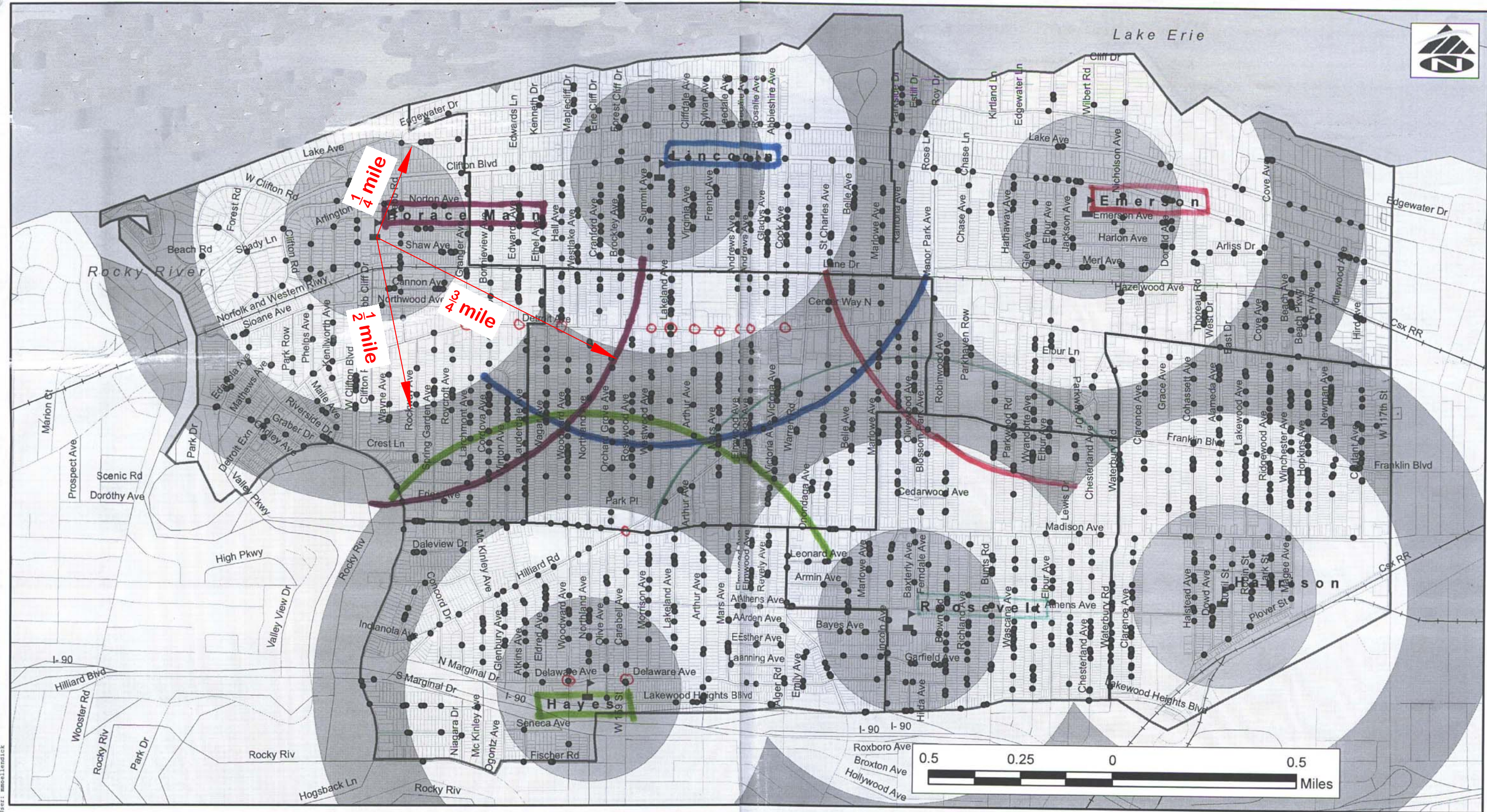
I first want to back up and correct something I did not do in my first post. I want to thank the two people who volunteered to preside over the presentation and congratulate them both (Brian and Sandy) for the terrific job they did. As a Project Manager, I have had to stand up in front of town forums when I presented OSFC school projects designed by our firm and know first-hand it is not an easy task. They both gave a fantastic presentation.

My original post (which was long, but this one may be longer) was to let people know that neither Lincoln nor Grant will survive intact. Both districts will be carved up by the other remaining five to equally redistribute the student population and that the best way to analyze what is left would be to have the six district boundaries presented to us.

Someone drew the boundaries to take Lakewood from 10 schools down to 7, how hard can it be to show us what 6 looks like? What point does it serve to keep harping on density when you do not know which school goes with which density block? I know that will not happen (no school official is going to put their head on that chopping block at this point. I have one example map included) but it would have led to a better focused discussion.

Many people seem to be concerned with the financial impact issue and how much that swayed people's opinion. Myself, I'm still wondering about the 5/8 mile radius being magically equated to 3/4 mile walk. I want to review the walking distance maps, especially since they were 25% of the entire slide presentation (count the slides titled "walking distance" and do the math).

The Committee that studied walking distance used a map with 1/4 mile, 1/2 mile and 3/4 mile radius circles. Somehow the map was revised from 3/4 mile radius to 5/8 mile radius between then and the Forum. What happens if it had stayed with 3/4 mile radius? Did the committee come to consensus on this issue or was it dictated by the one or two to the many? The circles are on the drawing already, so you can see the results already. Grant (middle of the map) is fully covered by the radii of the 5 other schools. Imagine the potential impact on the public in the room at the Forum if slide 20 from the PowerPoint Presentation (its online at the Lakewood School web site) had shown ZERO homes with children in the middle of Lakewood being impacted by closing Grant instead of the slide showing the yellow swatch with 176. Then again, maybe someone did think about that. See following page for graphic.



Legend:

1/4 Mile	Schools
1/2 Mile	Water
3/4 Mile	Streets
Attendance Area Boundary	Parcels
Student	

Data Source:

1. US Census Tiger Line Files, 2008
2. Lakewood City School District, 2009
3. Cuyahoga County GIS, 2008
4. ORC 3327.01

Projection:
Ohio State Plane North NAD 1983 FIPS 3401 Feet

LAKEWOOD CITY SCHOOL DISTRICT

Elementary Attendance Areas (Grant Removed)

1/4, 1/2, & 3/4 Mile Walking Radii

NOTE THE TITLE: NO WHERE IS 5/8 MILE RADIUS MENTIONED

\\12005A\2009045\01\GIS\LakewoodCitySchools_AltStudents_GrantRemoved_QtrMileWalking.mxd
7/30/2009 -- 1:20:43 PM User: mmollerndick

(Grant removed) Just to make it clearer, if the map had stayed with 3/4 mile radii, take out Grant - there are absolutely no homes with or without children in the middle of Lakewood that do not fall within one of the schools radii. See following page for graphic.



NO CHILDREN IN THE MIDDLE OF
LAKEWOOD ARE OUTSIDE OF A 3/4
MILE RADIUS TO A SCHOOL-
ABSOLUTELY ZERO.

LAKEWOOD SCHOOL DISTRICT - GRANT REMOVED

3/4 MILE WALKING RADII

TOP NUMBER = LAST YEAR ENROLLMENT

LOWER NUMBER = EQUAL DISTRIBUTION
AMONG THE SIX SCHOOLS

Legend:

	Schools		Harrison		Roosevelt
	Emerson		Hayes		Water
	Grant		Horace Mann		Streets
	Lincoln		Parcels		

Data Source:

1. US Census, TIGER Line Files, 2008
2. Lakewood City School District, 2009
3. Cuyahoga County GIS, 2008
4. ORC 3327.01

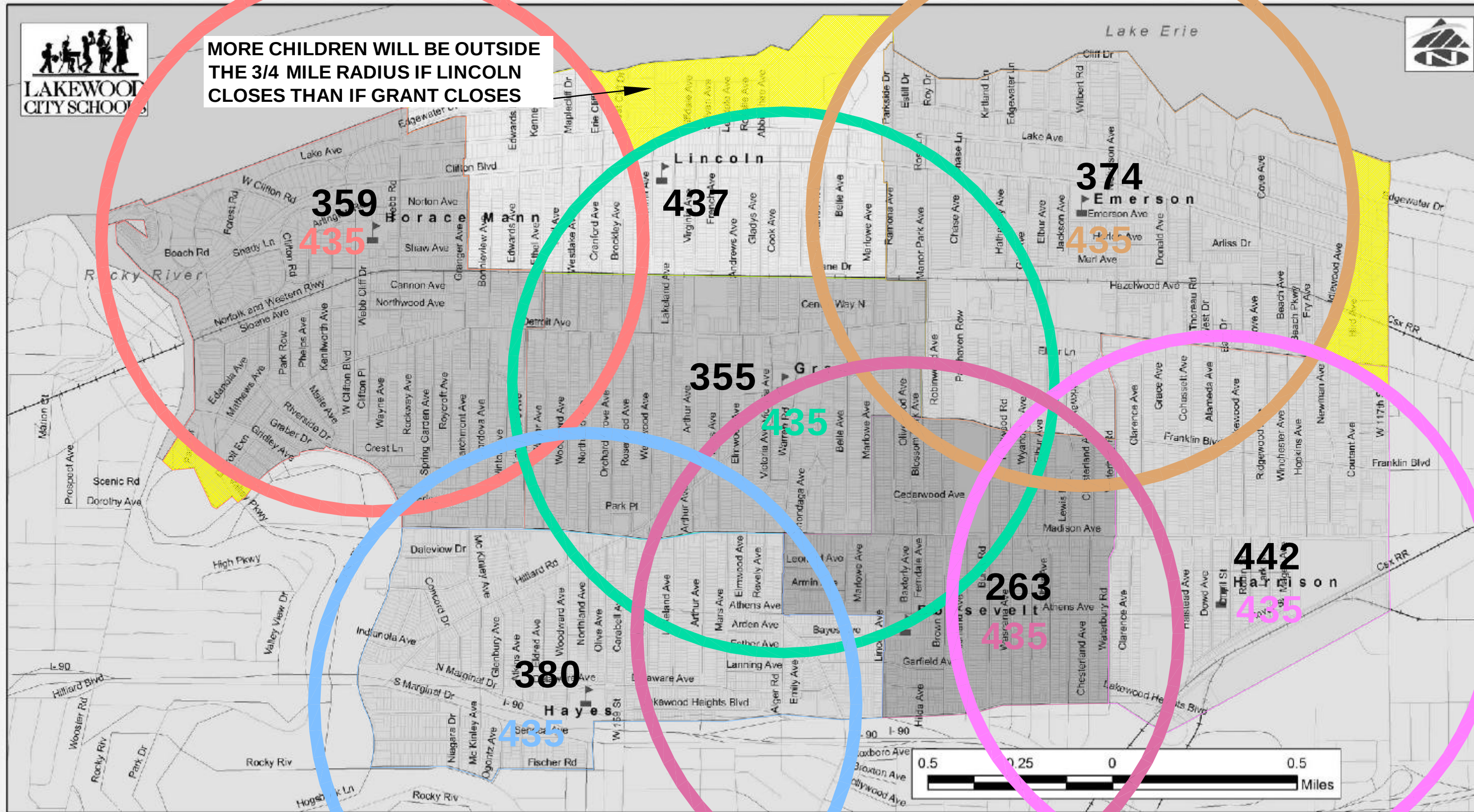
Projection:

Ohio State Plane North NAD 83 FIPS 3401 Feet

(Lincoln removed) If the map had stayed with 3/4 mile radii, take out Lincoln, there are still many homes with children in the middle north of Lakewood that do not fall within one of the schools radii. See following page for graphic.



**MORE CHILDREN WILL BE OUTSIDE
THE 3/4 MILE RADIUS IF LINCOLN
CLOSES THAN IF GRANT CLOSSES**



Legend:

	Schools		Harrison		Roosevelt
	Emerson		Hayes		Water
	Grant		Horace Mann		Streets
	Lincoln		Parcels		

Data Source:
1. US Census Tracer Line Files, 2008
2. Lakewood City School District, 2009
3. Cuyahoga County GIS, 2008
4. ORC 3327.01

Projection:
Ohio State Plane North NAD 83 FIPS 3401 Feet

LAKEWOOD SCHOOL DISTRICT - LINCOLN REMOVED

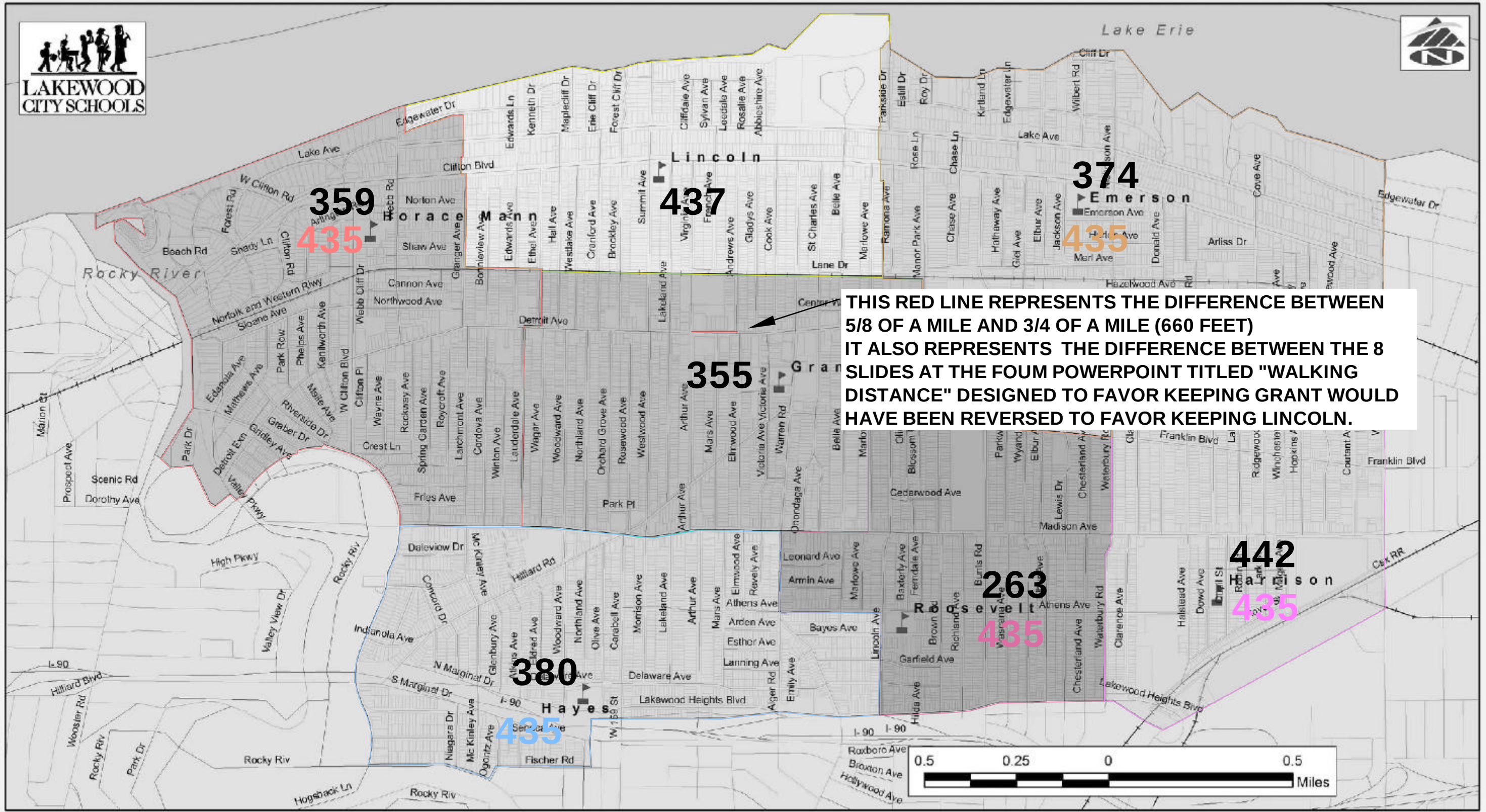
3/4 MILE WALKING RADII

TOP NUMBER = LAST YEAR ENROLLMENT

**LOWER NUMBER = EQUAL DISTRIBUTION
AMONG THE SIX SCHOOLS**

The Committee already had the $\frac{3}{4}$ mile radius on their walking maps. Someone had to decide to remove that circle and shrink it to $\frac{5}{8}$ mile radius. Thus creating the 176 student gap in the middle of Lakewood (slide 20 from the Forum PowerPoint Presentation). Again was this consensus of the committee or the two dictating to the many?

The difference between $\frac{5}{8}$ and $\frac{3}{4}$ mile radii? $\frac{1}{8}$ of a mile. What does this mean? 660 feet. But in visual terms. Basically, it is equal to walking the block with the Drug Mart shopping center and the two flanking churches. See following page for graphic.



THIS RED LINE REPRESENTS THE DIFFERENCE BETWEEN 5/8 OF A MILE AND 3/4 OF A MILE (660 FEET) IT ALSO REPRESENTS THE DIFFERENCE BETWEEN THE 8 SLIDES AT THE FOUR POWERPOINT TITLED "WALKING DISTANCE" DESIGNED TO FAVOR KEEPING GRANT WOULD HAVE BEEN REVERSED TO FAVOR KEEPING LINCOLN.

Legend:

	Schools		Harrison		Roosevelt
	Emerson		Hayes		Water
	Grant		Horse Mann		Streets
	Lincoln		Parcels		

Data Source:
1. US Census Tiger Line Files, 2008
2. Lakewood City School District, 2009
3. Cuyahoga County GIS, 2008
4. ORC 3327.01

Projection:
Ohio State Plane North NAD 1983 FIPS 3401 Feet

LAKEWOOD SCHOOL DISTRICT - T
DIFFERENCE BETWEEN 5/8 MILE
AND 3/4 MILE WALKING RADII

TOP NUMBER = LAST YEAR ENROLLMENT
LOWER NUMBER = EQUAL DISTRIBUTION
AMONG THE SIX SCHOOLS

(Lincoln removed) What happens in terms of actual walking distance if Lincoln is removed? Students in the upper middle of Lakewood will walk over 1 mile to reach school. According to another participant in the Observation Deck, that automatically means Lakewood needs busing. I am no expert, but I think busing does not become required until 2 miles. Lakewood as small as it is has absolutely no worries of ever needing busing. But walking over one mile is a very valid concern and Lincoln children will have to do this if Lincoln closes.



1.10 MILE WALK TO SCHOOL

1.13 MILE WALK TO SCHOOL

359

435

437

355

435

374

435

442

435

263

435

380

435



Legend:

	Schools		Harrison		Roosevelt
	Emerson		Hayes		Water
	Grant		Horace Mann		Streets
	Lincoln		Parcels		

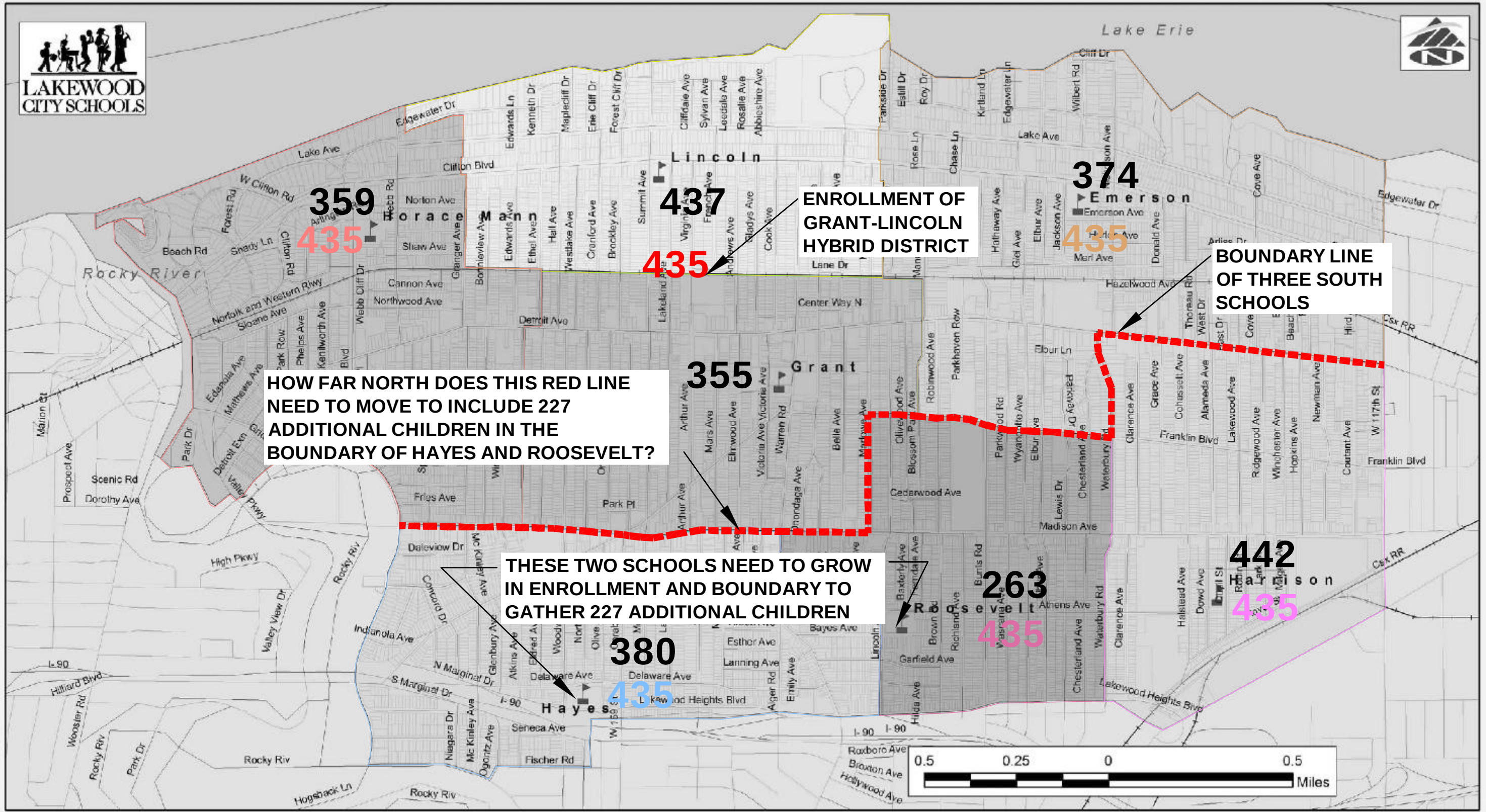
Data Source:
1. US Census TIGER Line Files, 2008
2. Lakewood City School District, 2009
3. Cuyahoga County GIS, 2008
4. ORC 3327.01

Projection:
Ohio State Plane North NAD 83 FIPS 3401 Feet

LAKEWOOD SCHOOL DISTRICT - LINCOLN REMOVED
ACTUAL WALKING DISTANCE
CHILDREN WILL NEED TO WALK 1.10 MILES

TOP NUMBER = LAST YEAR ENROLLMENT
LOWER NUMBER = EQUAL DISTRIBUTION
AMONG THE SIX SCHOOLS

Back to my original first post issue. How do you add 227 children to the south schools (Hayes and Roosevelt)? The horizontal boundary line will have to move north into what is currently Grant, but how far? See following page for graphic.



Legend:

	Schools		Harrison		Roosevelt
	Emerson		Hayes		Water
	Grant		Horse Mann		Streets
	Lincoln		Parcels		

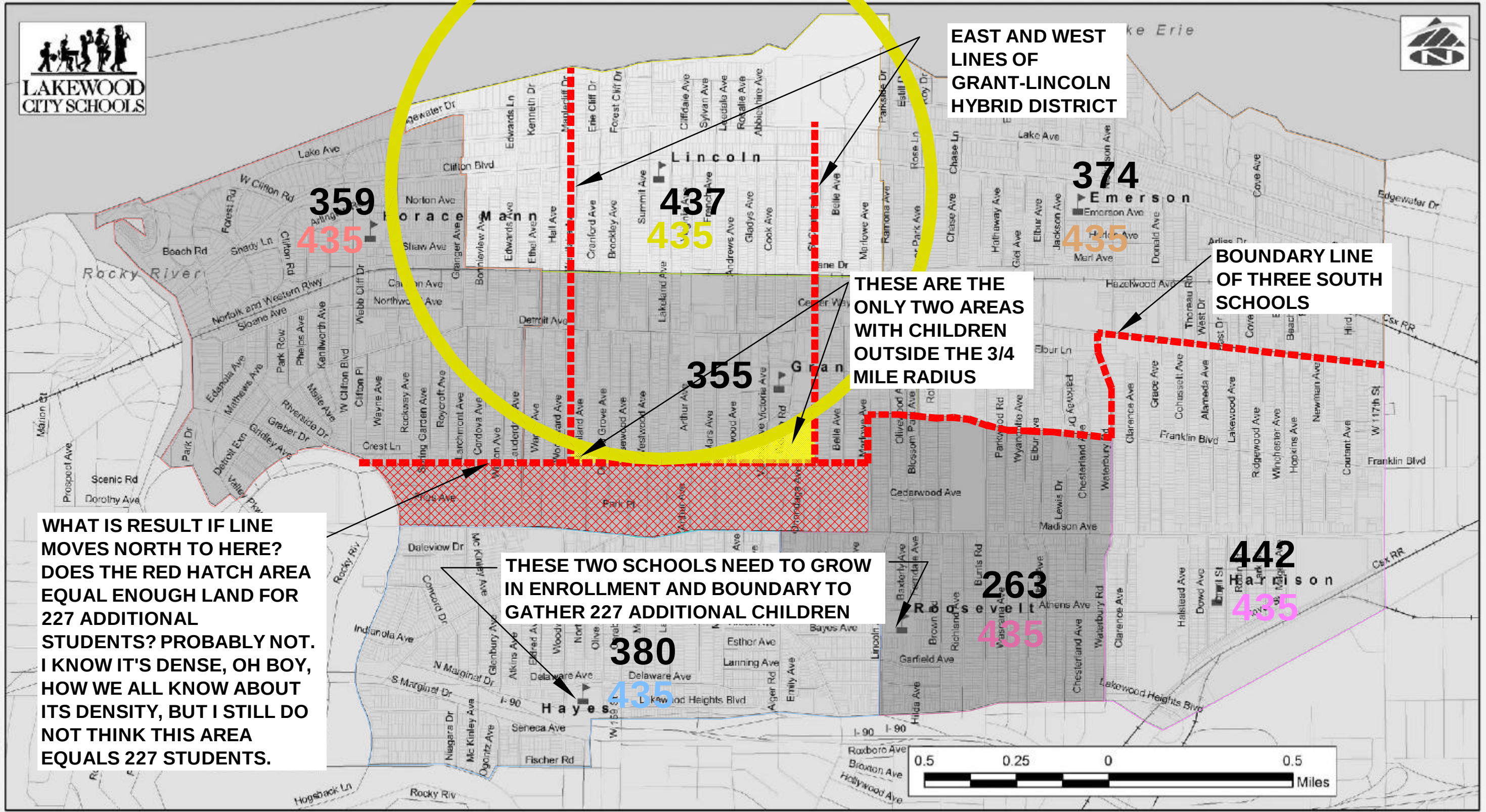
Data Source:
1. US Census Tiger Line Files, 2008
2. Lakewood City School District, 2009
3. Cuyahoga County GIS, 2008
4. ORC 3327.01

Projection:
Ohio State Plane North NAD 1983 FIPS 3401 Feet

**LAKEWOOD SCHOOL DISTRICT -
SOUTH THREE SCHOOLS
WHERE IS NEW BOUNDARY LINE DRAWN**

**TOP NUMBER = LAST YEAR ENROLLMENT
LOWER NUMBER = EQUAL DISTRIBUTION
AMONG THE SIX SCHOOLS**

(Grant removed) I have reduced the north movement of this line by half from my original post!! In my original post I stated to move it all the way up to even with Franklin, but I am trying to reach consensus. In this drawing, Grant is removed and with the new boundary line in this location there is only a small yellow area outside the 3/4 mile radius. I do not claim to be the all knowledgeable redistricting czar, but how do the four newly built schools plus Roosevelt increase enrollment without the district lines moving into Lincoln and Grant? See following page for graphic.



EAST AND WEST
LINES OF
GRANT-LINCOLN
HYBRID DISTRICT

BOUNDARY LINE
OF THREE SOUTH
SCHOOLS

THESE ARE THE
ONLY TWO AREAS
WITH CHILDREN
OUTSIDE THE 3/4
MILE RADIUS

WHAT IS RESULT IF LINE
MOVES NORTH TO HERE?
DOES THE RED HATCH AREA
EQUAL ENOUGH LAND FOR
227 ADDITIONAL
STUDENTS? PROBABLY NOT.
I KNOW IT'S DENSE, OH BOY,
HOW WE ALL KNOW ABOUT
ITS DENSITY, BUT I STILL DO
NOT THINK THIS AREA
EQUALS 227 STUDENTS.

THESE TWO SCHOOLS NEED TO GROW
IN ENROLLMENT AND BOUNDARY TO
GATHER 227 ADDITIONAL CHILDREN

Legend:

	Schools		Harrison		Roosevelt
	Emerson		Hayes		Water
	Grant		Horse Mann		Streets
	Lincoln		Pancakes		

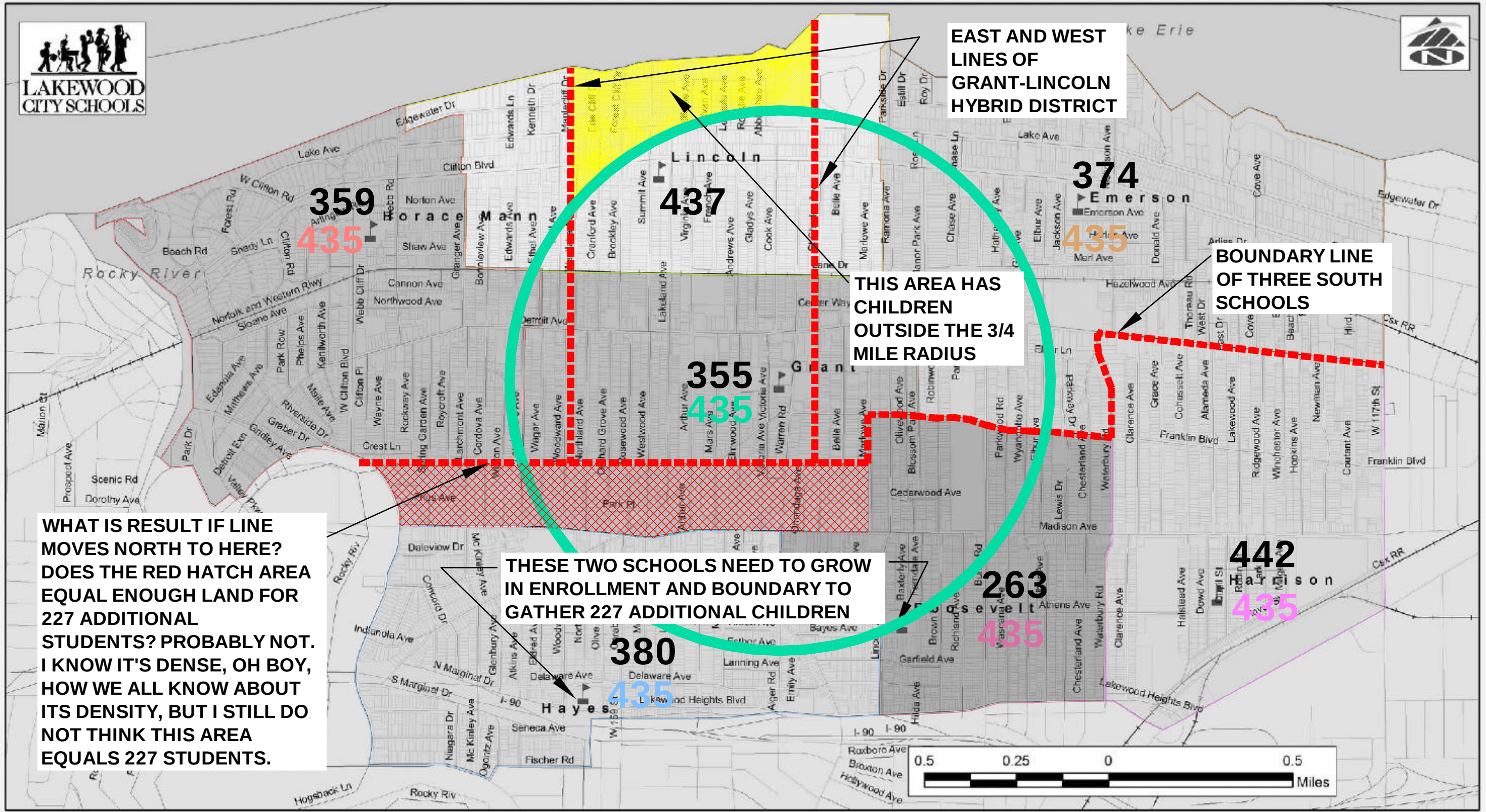
Data Source:
1. US Census Tiger Line Files, 2008
2. Lakewood City School District, 2009
3. Cuyahoga County GIS, 2008
4. ORC 3327.01

Projection:
Ohio State Plane North NAD 1983 FIPS 3401 Feet

LAKEWOOD SCHOOL DISTRICT -
REUSE LINCOLN SITE
NEW BOUNDARY LINE DRAWN

TOP NUMBER = LAST YEAR ENROLLMENT
LOWER NUMBER = EQUAL DISTRIBUTION
AMONG THE SIX SCHOOLS

(Lincoln removed) Once again, I have reduced the north movement of this line by half from my original post!! In my original post I stated to move it all the way up to even with Franklin, but I am trying to reach consensus. In this drawing Lincoln is removed and with the new boundary line in this location there is a large yellow area outside the 3/4 mile radius. And, as I had shown on an earlier page, children in this area shall have over a mile walk to Grant. See following page for graphic.



EAST AND WEST
LINES OF
GRANT-LINCOLN
HYBRID DISTRICT

THIS AREA HAS
CHILDREN
OUTSIDE THE 3/4
MILE RADIUS

BOUNDARY LINE
OF THREE SOUTH
SCHOOLS

WHAT IS RESULT IF LINE
MOVES NORTH TO HERE?
DOES THE RED HATCH AREA
EQUAL ENOUGH LAND FOR
227 ADDITIONAL
STUDENTS? PROBABLY NOT.
I KNOW IT'S DENSE, OH BOY,
HOW WE ALL KNOW ABOUT
ITS DENSITY, BUT I STILL DO
NOT THINK THIS AREA
EQUALS 227 STUDENTS.

THESE TWO SCHOOLS NEED TO GROW
IN ENROLLMENT AND BOUNDARY TO
GATHER 227 ADDITIONAL CHILDREN

LAKEWOOD SCHOOL DISTRICT -
REUSE GRANT SITE
NEW BOUNDARY LINE DRAWN

TOP NUMBER = LAST YEAR ENROLLMENT
LOWER NUMBER = EQUAL DISTRIBUTION
AMONG THE SIX SCHOOLS

Legend:

Schools	Harrison	Roosevelt
Emerson	Hayes	Water
Grant	Horace Mann	Streets
	Lincoln	Parcels

Data Source:

1. US Census Tiger Line Files, 2008
2. Lakewood City School District, 2009
3. Cuyahoga County GIS, 2008
4. ORC 3327.01

Projection:

Ohio State Plane North NAD 1983 FIPS 3401 Feet

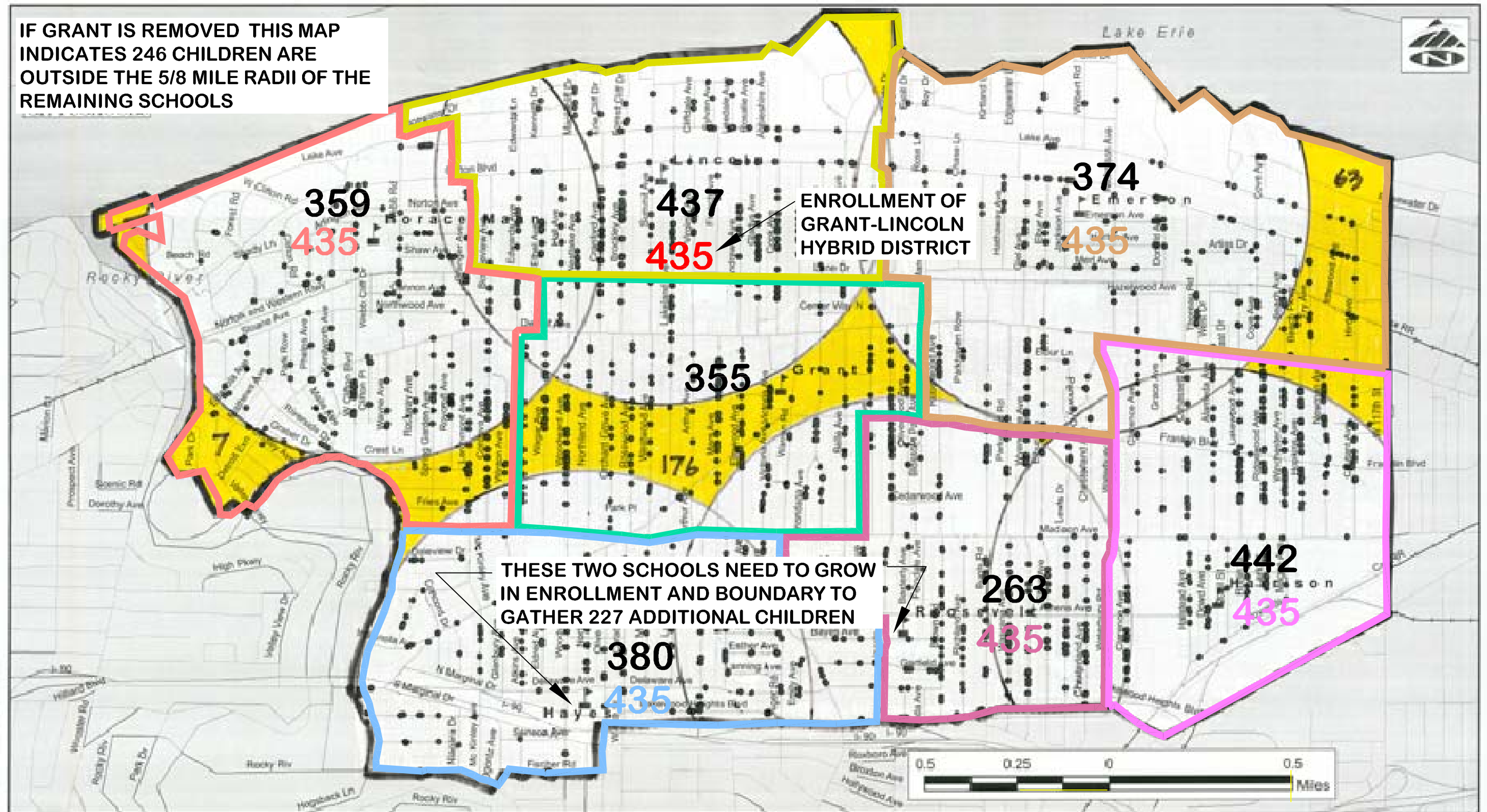
Some people have stated they see a train wreck. I see a steam roll job. 8 slides out of 32 with the title “Walking Distance”. That’s a high DENSITY of slides about walking distance. 25% of the whole presentation and how different a view/slant could have been presented had the map stayed 3/4 mile radius as it started out (go back and look at original walking map) with the dots (representing homes with children already on the map - one could see the result for 3/4 mile) - Grant was fully covered by all 5 remaining schools. Maybe someone did not like that result.

I GUESS MY TABLE WILL NOT REACH CONSENSUS ON 5/8 MILE VS. 3/4 MILE. Stick the blue dot back in the folder.

Now someone actually took the time to read my first post and stated on the Observation Deck that they could not follow along on the logic of how keeping Grant open does not necessarily reduce those 120 children (176-56) from walking over the 5/8 mile radius. We will need to review slides 20 and 22 from the Forum PowerPoint Presentation. I have included the misleading maps from them next.

With Grant removed and using the magic 5/8 mile radii a yellow swatch is created in the middle of Lakewood showing 176 children living outside the 5/8 mile radii. (Page 20 from the Forum PowerPoint). See following page for graphic.

IF GRANT IS REMOVED THIS MAP INDICATES 246 CHILDREN ARE OUTSIDE THE 5/8 MILE RADII OF THE REMAINING SCHOOLS



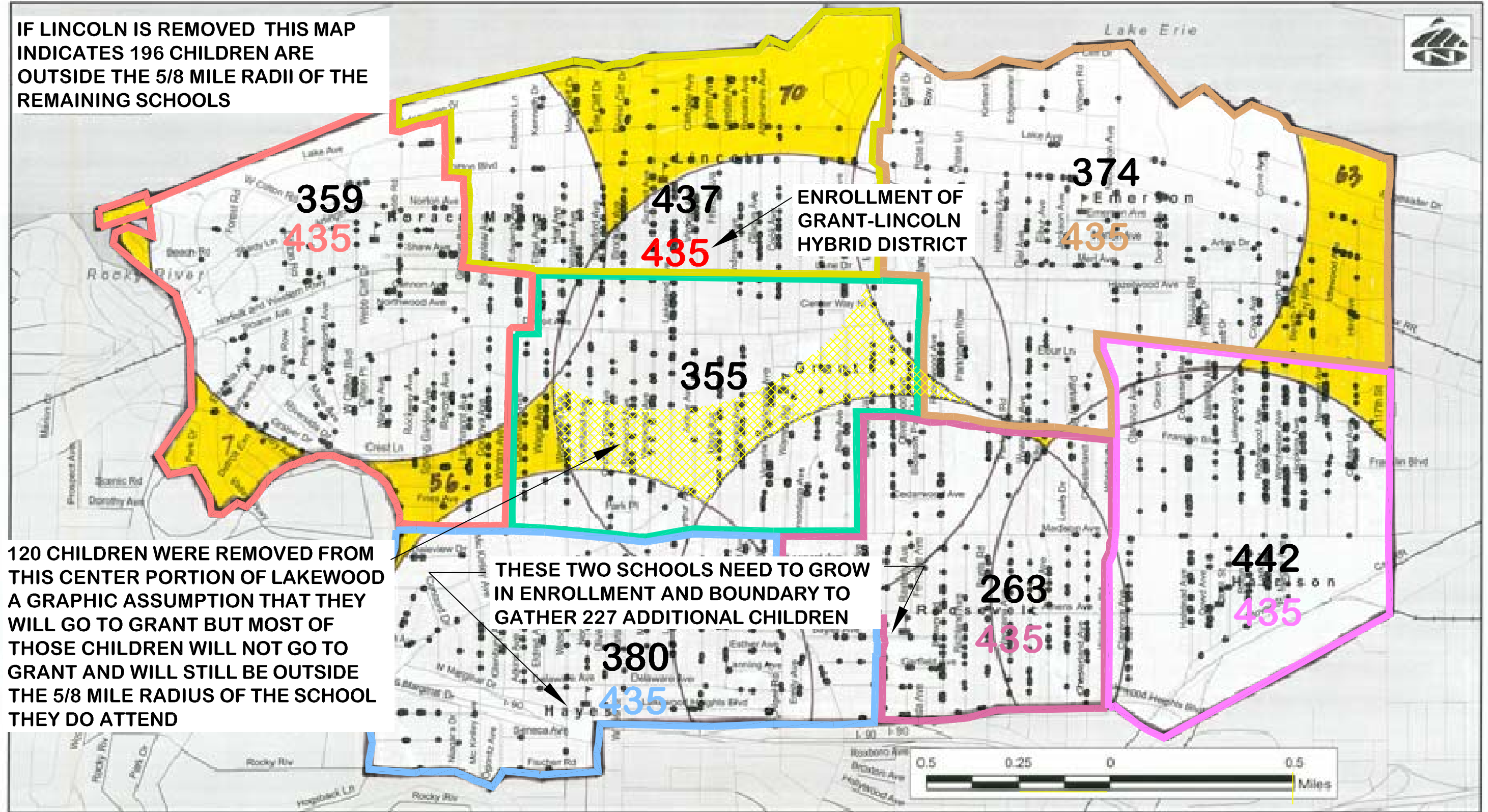
THESE TWO SCHOOLS NEED TO GROW IN ENROLLMENT AND BOUNDARY TO GATHER 227 ADDITIONAL CHILDREN

LAKWOOD SCHOOL DISTRICT -
GRANT REMOVED
CHILDREN OUTSIDE 5/8 MILE RADDI

TOP NUMBER = LAST YEAR ENROLLMENT
LOWER NUMBER = EQUAL DISTRIBUTION AMONG THE SIX SCHOOLS

With Lincoln removed and using the magic 5/8 mile radii the yellow swatch is in the middle of Lakewood is reduced to showing only 56 children plus a yellow swatch appears at the middle north of Lakewood which adds 70 children. (Page 22 from the Forum PowerPoint). The end result – saving Grant is presented to mean saving 50 children a longer walk (176-56-70). Another assumption intended to be drawn by the viewer is that saving Grant equates to saving the 120 children in the middle of Lakewood (176-56) from walking over the 5/8 mile radius. But this is not true. The viewer is not told that many of these children will need to walk south to help balance the district population. All we are told is that all district lines will be redrawn later but its impact on the analysis is critical. But always avoid information that does not help your preconceived result. See following page for graphic.

IF LINCOLN IS REMOVED THIS MAP INDICATES 196 CHILDREN ARE OUTSIDE THE 5/8 MILE RADII OF THE REMAINING SCHOOLS



120 CHILDREN WERE REMOVED FROM THIS CENTER PORTION OF LAKEWOOD A GRAPHIC ASSUMPTION THAT THEY WILL GO TO GRANT BUT MOST OF THOSE CHILDREN WILL NOT GO TO GRANT AND WILL STILL BE OUTSIDE THE 5/8 MILE RADIUS OF THE SCHOOL THEY DO ATTEND

THESE TWO SCHOOLS NEED TO GROW IN ENROLLMENT AND BOUNDARY TO GATHER 227 ADDITIONAL CHILDREN

ENROLLMENT OF GRANT-LINCOLN HYBRID DISTRICT

LAKEWOOD SCHOOL DISTRICT - LINCOLN REMOVED
196 CHILDREN OUTSIDE 5/8 MILE RADDI

TOP NUMBER = LAST YEAR ENROLLMENT
LOWER NUMBER = EQUAL DISTRIBUTION AMONG THE SIX SCHOOLS

Legend

- School
- Boundary
- Area
- Points

Scale

1. US Census Tiger Line Files, 2000
2. Lakewood City School District, 2000
3. Cuyahoga County GIS, 2000
4. GNC 3027 .01

Projection

Ohio State Plane North NAD, 1983 FIPS 3401 Feet

So let me try again with the following page.

With Lincoln removed and using the magic $5/8$ mile radii and adding a proposed six school boundary (I used my same boundary from my first post just to keep apples to apples since I am trying to help someone understand part of my first post). Only 20 children are reduced by Grant remaining open. The other 100 children should still show up on the map as a yellow swatch because they still walk over the $5/8$ mile radius to the south, east, or west. See following page for graphic.

IF LINCOLN IS REMOVED AND YOU FACTOR IN THE PENDING REDISTRICTING THIS MAP INDICATES 296 CHILDREN ARE OUTSIDE THE 5/8 MILE RADII OF THE REMAINING SCHOOLS . IT BECOMES VERY CLEAR THAT THE REDUCTION OF 120 CHILDREN WILL NOT OCCUR BECAUSE MOST STILL WALK TO A SCHOOL OUTSIDE A 5/8 MILE RADIUS.

END RESULT
CLOSING LINCOLN EQUALS 296 CHILDREN OUTSIDE MAGIC 5/8 MILE RADII.
CLOSE GRANT EQUALS 246 CHILDREN OUTSIDE MAGIC 5/8 MILE RADII.

THESE TWO SCHOOLS NEED TO GROW IN ENROLLMENT AND BOUNDARY TO GATHER 227 ADDITIONAL CHILDREN

ENROLLMENT OF GRANT-LINCOLN HYBRID DISTRICT

437
435

374
435

359
435

355

30

70

20

263
435

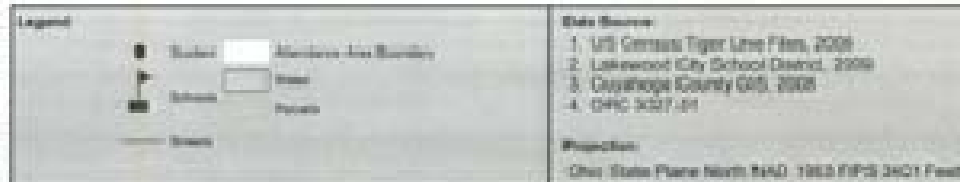
442
435

380
435



LAKEWOOD SCHOOL DISTRICT -
LINCOLN REMOVED
CHILDREN OUTSIDE 5/8 MILE RADDI

TOP NUMBER = LAST YEAR ENROLLMENT
LOWER NUMBER = EQUAL DISTRIBUTION AMONG THE SIX SCHOOLS



Data is data – it's manipulation to reach a preconceived conclusion is something else.

I hope as the information is compiled to be submitted up the chain of command to the elected School Board Members that someone will share with them how biased one particular sub-committee has operated. The steam roll damage was done to the public at the Forum and to the rest of the population by the continuous replaying of the Forum on the Public Access Channel; let's at least do a better job informing our elected officials of the manipulation that has occurred. Now to heed that friend's good advice and stay away.