

Orange County Board of Education

Dr. Shirley Carraway
Superintendent

Board Members:

Keith Cook, Chair
Brenda Stephens, Vice Chair
Randy Copeland
Betty Tom Phelps Davidson
Libbie Hough
Delores Simpson
Dana Thompson

200 East King Street
Willsborough, NC 27278
Telephone: 919-732-8126
FAX: 919-732-8120



TO: John Link
Orange County Manager

FROM: Shirley Carraway
Superintendent, Orange County Schools

DATE: October 14, 2003

SUBJECT: Responses to Additional BOCC Questions Regarding Merger

Following are responses to the request for additional merger information from the Board of County Commissioner members at the September 15, 2003 meeting. Responses will be provided in the same order as those presented by the Chapel Hill-Carrboro City Schools to assist in comparing the data reported.

1. SAT Results

- a. Raw data including participation, math scores, verbal scores and total scores from 1995 – 2003.
- b. Graphic comparison of participation from 1995 – 2003
- c. Graphic comparison of total scores from 1995 – 2003
- d. Disaggregated data by race and gender of students taking SAT 1 in 2002.

2. Free and Reduced Lunch

- a. 2003 – 2004 F/R percentages by school
- b. 2002 – 2003 F/R percentages by school
- c. 2001 – 2002 F/R percentages summary

3. Average Class Size

- a. Average class size for elementary schools by school
- b. Average class size by grade level for district
- c. Middle School courses and class size averages
- d. High school courses and class size averages

4. Dropout Rate

- a. 1993 – 2002 Dropout comparison by percentage
- b. 1993 – 2002 Dropout comparison by percentage compared to state average

Re: Response to Additional BOCC Questions Regarding Merger

5. Estimated number of students to be moved and general assumptions if merger occurs.
 - a. Elementary school impact, by year, from 2005 – 2006 through 2013 – 2014
 - b. Middle school impact, by year, from 2005 – 2006 through 2013 – 2014
 - c. High school impact, by year, from 2005 – 2006 through 2013 – 2014
 - d. Elementary school attendance map
 - e. Middle school attendance map
 - f. High school attendance map

Do not hesitate to contact me if additional information or an explanation of the information presented is required.

/pmc

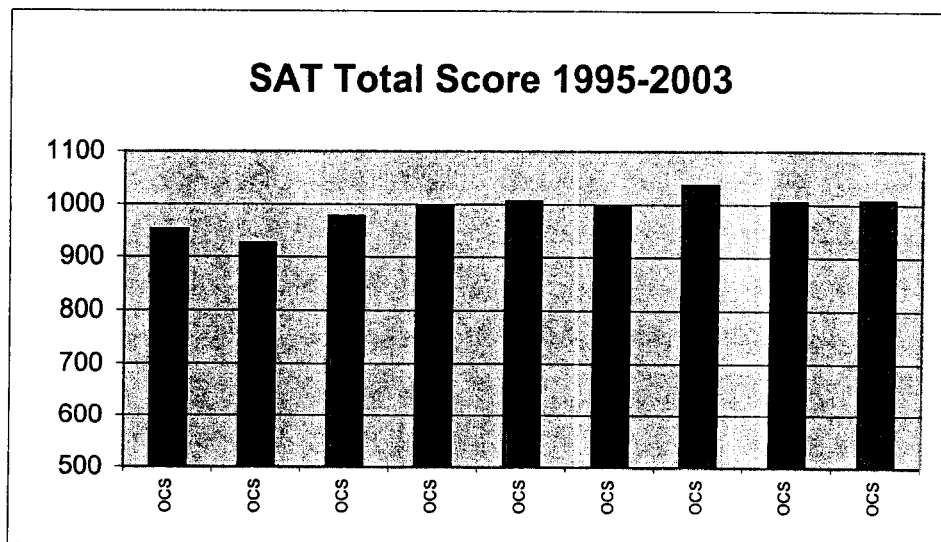
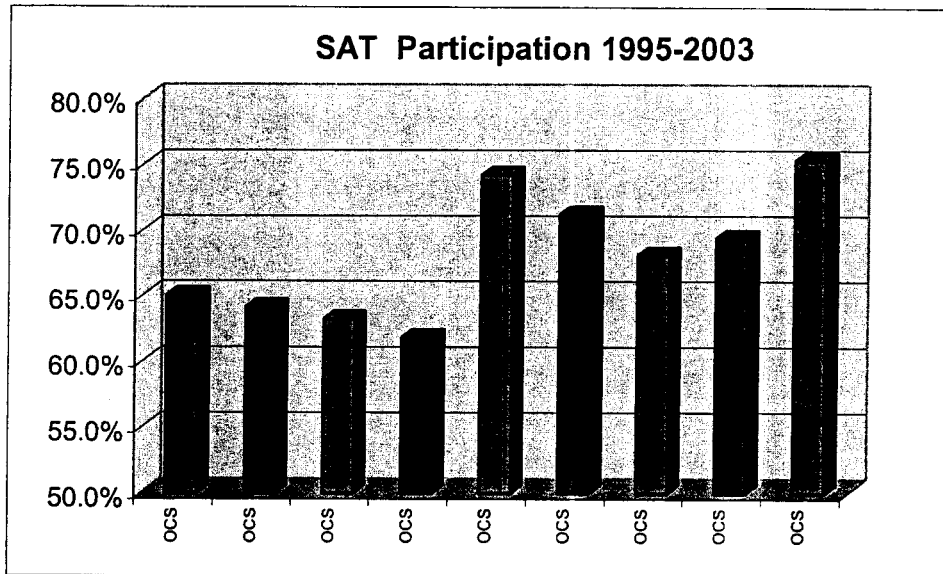
cc: Orange County Schools Board of Education
Neil Pedersen, Superintendent, Chapel Hill-Carrboro City Schools

SAT Results 1995 - 2003

The table below reports participation and total test scores for Orange County Schools since 1995. In response to the inquiry concerning who does and does not take the test, a table of disaggregated data, by gender and race is provided.

Raw Data

District	Year	# tested	% tested	Math	Verbal	Total
OCS	1995	178	65.0%	476	475	951
OCS	1996	159	64.1%	466	459	925
OCS	1997	192	63.2%	484	493	977
OCS	1998	186	61.8%	496	501	997
OCS	1999	216	74.2%	502	504	1006
OCS	2000	218	71.2%	501	493	994
OCS	2001	201	68.1%	524	512	1036
OCS	2002	220	69.4%	507	497	1004
OCS	2003	250	75.3%	510	497	1007



Disaggregated Data on Test Takers for 2002

All Seniors	A. Indian	Asian	African A.	Hispanic	White	Other	No Response	Total
Male	1	2	34	4	125	2		168
Female		2	38	2	109	1		152
Total	1	4	72	6	234	3	0	320

Seniors Taking SAT 1	A. Indian	Asian	African A.	Hispanic	White	Other	No Response	Total
Male	1	1	18	1	62	1	14	98
Female	2	2	19	2	103	0	24	152
Total	3	3	37	3	165	1	38	250

Free and Reduced Lunch

The free and reduced meal participation rate for the district is provided in tables below. School detail for 2003-2004 and 2002-2003 are provided. A summary for 2001-2002 concludes the table.

As with most districts, the free and reduced percentage declines as the student grade level increases.

FREE AND REDUCED MEAL PARTICIPATION BY SCHOOL 2003-2004

SCHOOL	FREE	REDUCED	TOTAL	% OF ENROLLED
Cameron Park	149	39	188	47.47%
Central	161	45	206	66.02%
Efland-Cheeks	197	49	246	57.61%
Grady Brown	119	29	148	31.35%
Hillsborough	37	13	50	12.59%
New Hope	96	37	133	28.6%
Pathways	100	49	149	28.11%
A. L. Stanback Middle	183	68	251	31.1%
C. W. Stanford Middle	194	66	260	29.81%
Cedar Ridge High	117	28	145	15.47%
Orange High	122	46	168	17.5%
Total	1475	469	1944	29.56%

FREE AND REDUCED MEAL PARTICIPATION BY SCHOOL 2002-2003

SCHOOL	FREE	REDUCED	TOTAL	% OF ENROLLED
Cameron Park	166	73	239	49.36%
Central	176	48	224	69.13%
Efland-Cheeks	170	50	220	50.69%
Grady Brown	102	29	131	30.04%
Hillsborough	36	11	47	11.92%
New Hope	97	39	136	30.28%
Pathways	91	53	144	28.85%
A. L. Stanback Middle	188	73	261	33.59%
C. W. Stanford Middle	179	61	240	29.52%
Cedar Ridge High	79	23	102	14.40%
Orange High	134	50	184	15.80%
Total	1418	510	1928	29.53%

2001-2002 Totals	1353	407	1760	28.25%
-------------------------	-------------	------------	-------------	---------------

**Average Class Size in Elementary Schools
2003-2004**

School	Enrollment	No. Classroom Teachers	Class Size
Cameron Park	394	23	17.13
Central Elementary	293	17	17.24
Efland Cheeks	418	23	18.17
Grady Brown	470	22	21.36
Hillsborough Elementary	397	19	20.89
New Hope	465	22	21.14
Pathways	511	24	21.29

5 additional positions from Federal PRC-103 funds were given to Cameron Park, Central and Efland Cheeks Schools in grades 3-5. 1 additional position was provided to Cameron Park in exchange for 2 Teacher Assistant positions.

**Average Class Size by Grade Level
2003-2004**

Grade	Enrollment	No. Classroom Teachers	Class Size
K	469	26	18.04
K-1	19	1	19.00
1st	464	25	18.56
1st/2nd	22	1	22.00
2nd	460	25	18.40
3rd	464	24	19.33
4th	511	24	21.29
4th/5th	36	2	18.00
5th	466	22	21.18
Total	2911	150	19.41

Note: Self-contained Exceptional Education classes are not included in these data.

Class size in the elementary schools continues to be within the acceptable range as established by the State of North Carolina.

**Middle School Course Averages
2003-2004**

Subject	ALS	CWS	District
Language Arts	24.3	24.5	24.4
Foreign Language	16.0	18.7	17.4
Mathematics	25.1	25.1	25.1
Pre-Algebra	N/A	N/A	N/A
Algebra	17.7	13.7	15.7
Geometry	3.0	9.0	6.0
Science	26.4	26.7	26.6
Social Studies	27.4	25.0	26.2
Musical Expression	29.1	29.0	29.1
Artistic Expression	22.8	22.3	22.6
Theatrical	N/A	N/A	N/A
Career	16.8	20.7	18.8
Health/PE	18.1	20.3	19.2

This chart indicates the average class size in major subject areas among the middle schools. Class averages can be compared as well as subjects that exceed the state maximum of 29. In music and band, classes may exceed 29.

High School Course Averages 2003-2004

Subject	CRHS	OHS	District
English	24.9	23.9	24.4
English - Honors	23.7	18.4	21.0
English - AP	23.0	16.0	20.0
Journalism	18.0	18.0	18.0
Foreign Language	22.2	22.8	22.5
Foreign Language - AP	3.0	0.0	1.5
Algebra	27.3	23.5	25.4
Algebra - Honors	26.0	28.0	27.0
Geometry	26.0	22.6	24.3
Geometry - Honors	31.0	16.0	23.5
Advanced Math	27.3	21.0	24.2
Advanced Math - Honors	24.0	20.3	22.2
Calculus - AP	9.0	21.0	15.0
Statistics - AP	21.0	24.0	22.5
Science	25.3	20.9	23.1
Science - Honors	24.0	18.0	21.0
Science - AP	20.0	20.3	20.2
History	24.3	26.0	25.2
History - Honors	27.9	26.0	27.0
History - AP	22.7	15.0	18.9
Musical Expression	20.8	15.9	18.4
Artistic Expression	25.6	18.6	22.1
Theatrical Expression	15.2	15.3	15.3
Career Exploration	17.2	17.5	17.4
Health/PE	24.1	25.2	24.7

This table compares the average class size by major subject areas on the the high school level. All grade levels are included in the averages. Band and chorus classes are allowed to exceed the 32 limit.

Dropout Rates

The drop out rate for the Orange County Schools is provided below. It should be noted that the methodology for reporting dropouts changed in 1998-1999 resulting in substantial increases in percentages. Grade 9-12 data has been used for this table.

Dropout Rate 1993 – 2002

Year	LEA OCS	State NC
1993-94	2.43	
1994-95	3.90	3.39
1995-96	2.87	3.45
1996-97	3.12	3.44
1997-98	2.43	3.16
1998-99	5.45	6.78
1999-00	4.73	6.43
2000-01	5.20	5.72
2001-02	4.22	5.25
2002-03	N/A	N/A

2003 data available in November

Redistricting

The following information is based on assumptions and conclusions quite similar to those presented by Chapel Hill-Carrboro City Schools:

1. County approved projections as provided by Orange County staff in February 2003 were used in these assumptions.
2. The opening of middle school #3 in the Orange County Schools in the fall of 2006.
3. The opening of elementary school #10 and high school #3 in the Chapel Hill-Carrboro City Schools in the fall of 2006.
4. Students would be moved from school to school where capacity was available.
5. Little movement would occur for students from Orange County Schools to Chapel Hill-Carrboro City Schools because of available capacity in Orange County Schools.
6. Students would be moved to schools that are closest to existing schools in the adjacent district.

The data source used as the basis for assumptions regarding redistricting was derived from certified numbers produced by county staff in February 2003. The addition of 100 seats at Hillsborough Elementary School and the addition of middle school #3 for Orange County Schools provides adequate capacity for all Orange County Schools with the ability to accommodate students from Chapel Hill-Carrboro City Schools at the elementary, middle and high school levels beginning with the 2006–2007 school year. Capacity projections would allow the transfer of over capacity elementary students from Chapel Hill-Carrboro City Schools to Orange County Schools and over capacity high school students from Chapel Hill-Carrboro City Schools to Orange County Schools in the 2005–2006 school year.

The information provided is based solely on available seats and does not consider student balance, other adjustments that may be required, the advisability of student movement at certain grades, or many of the other considerations and issues that should be addressed when student redistricting occurs.

Elementary

Orange County elementary schools will experience excess capacity for each year through 2013–2014. With the addition of seats at Hillsborough Elementary during 2004–2005 we will be able to accommodate enrollment each year that exceeds 100% capacity for the two districts.

OCS Elementary	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
Average	2,922	2,954	2,962	3,017	3,067	3,110	3,154	3,199	3,244	3,290	3,336
Capacity-100%	3,820	3,920	3,920	3,920	3,920	3,920	3,920	3,920	3,920	3,920	3,920
Seats +/-	898	966	958	903	853	810	766	721	676	630	584

100 seats at Hillsborough

CHCCS Elementary	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
Average	4,745	4,925	5,083	5,235	5,405	5,498	5,585	5,673	5,761	5,844	5,928
Capacity-100%	4,921	4,921	4,921	5,521	5,521	5,521	5,521	5,521	5,521	5,521	5,521
Seats +/-	176	(4)	(162)	286	116	23	(64)	(152)	(240)	(323)	(407)

Elementary #10

Elementary Student Movement

2005-2006	Move 162 students from CHCCS to OCS
2006-2007	Adequate Capacity
2007-2008	Adequate Capacity
2008-2009	Adequate Capacity
2009-2010	Move 64 students from CHCCS to OCS
2010-2011	Move 152 students from CHCCS to OCS
2011-2012	Move 240 students from CHCCS to OCS
2012-2013	Move 323 students from CHCCS to OCS
2013-2014	Move 407 students from CHCCS to OCS

Middle School

Orange County Schools will be over capacity until the opening of middle school #3 in the fall of 2006. From that time until 2013-2014 Orange County Schools will be able to accommodate enrollment each year that exceeds the 100% capacity for the two districts. Student movement below was based solely on available seats.

OCS Middle	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
Average	1,638	1,597	1,590	1,581	1,587	1,596	1,611	1,643	1,666	1,690	1,715
Capacity-100%	1,466	1,466	1,466	2,166	2,166	2,166	2,166	2,166	2,166	2,166	2,166
Seats +/-	(172)	(131)	(124)	585	579	570	555	523	500	476	451

Middle #3

CHCCS Middle	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
Average	2,687	2,712	2,783	2,883	2,954	3,077	3,197	3,337	3,390	3,445	3,499
Capacity-100%	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840
Seats +/-	153	128	57	(43)	(114)	(237)	(357)	(497)	(550)	(605)	(659)

Middle School Student Movement

- 2005-2006 Orange County Schools will be 124 students over capacity. Any movement from OCS to CHCCS would create overcrowding in the CHCCS.
- 2006-2007 Move 43 students from CHCCS to OCS
- 2007-2008 Move 114 students from CHCCS to OCS
- 2008-2009 Move 237 students from CHCCS to OCS
- 2009-2010 Move 357 students from CHCCS to OCS
- 2010-2011 Move 497 students from CHCCS to OCS
- 2011-2012 Move 500 students from CHCCS to OCS
- 2012-2013 Move 476 students from CHCCS to OCS
- 2013-2014 Move 451 students from CHCCS to OCS

High School

Orange County Schools will have adequate available seats to accommodate projected high school enrollment beginning in 2005-2006 and through 2013-2014.

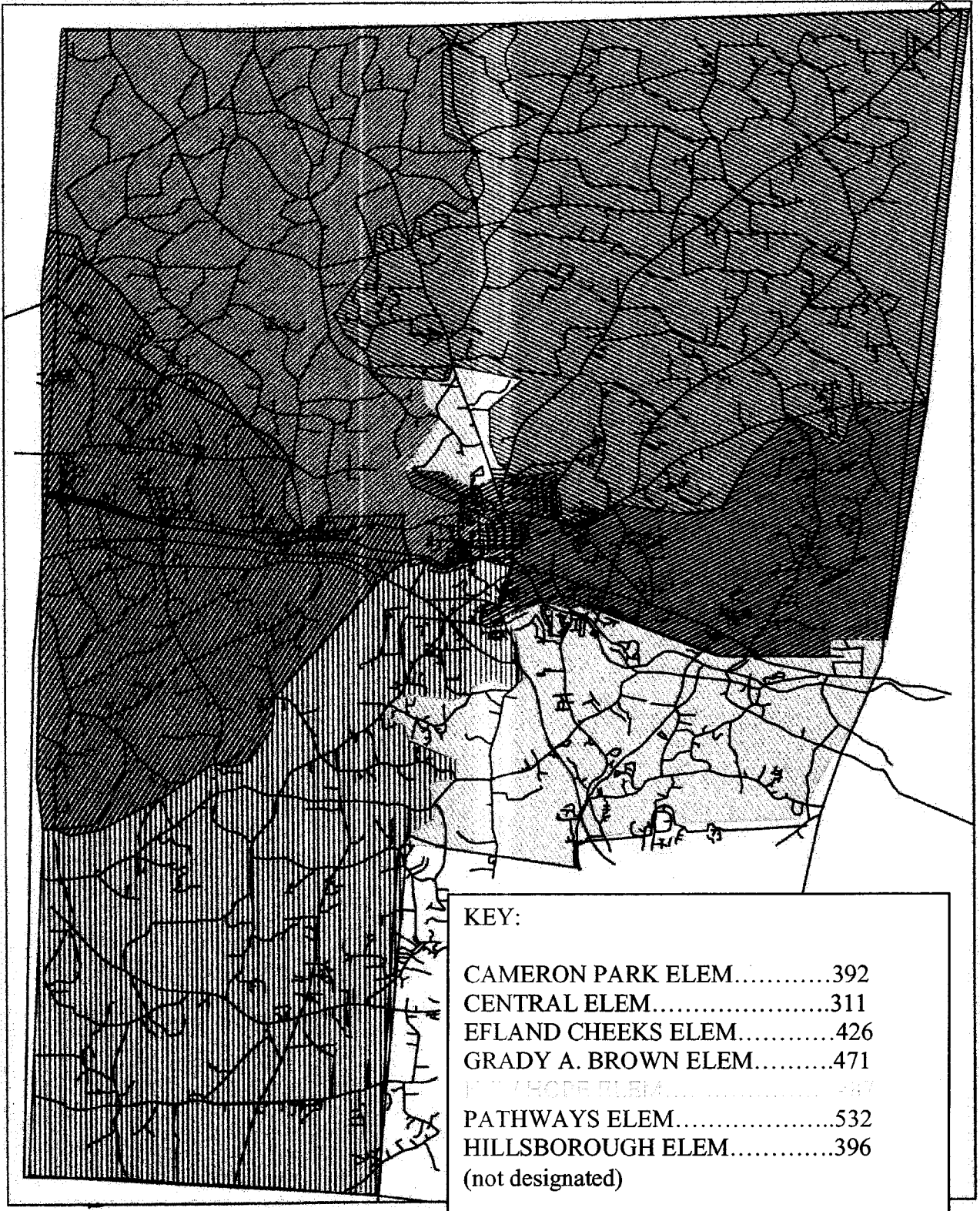
OCS High	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
Average	1,868	1,926	1,958	1,950	1,952	1,957	1,912	1,915	1,938	1,942	1,980
Capacity-100%	2,518	2,518	2,518	2,518	2,518	2,518	2,518	2,518	2,518	2,518	2,518
Seats +/-	650	592	560	568	566	561	606	603	580	576	538

CHCCS High	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
Average	3,250	3,425	3,552	3,629	3,719	3,790	3,889	3,981	4,159	4,310	4,447
Capacity-100%	3,035	3,035	3,035	3,835	3,835	3,835	3,835	3,835	3,835	3,835	3,835
Seats +/-	(215)	(390)	(517)	206	116	45	(54)	(146)	(324)	(475)	(612)

HS #3

High School Student Movement

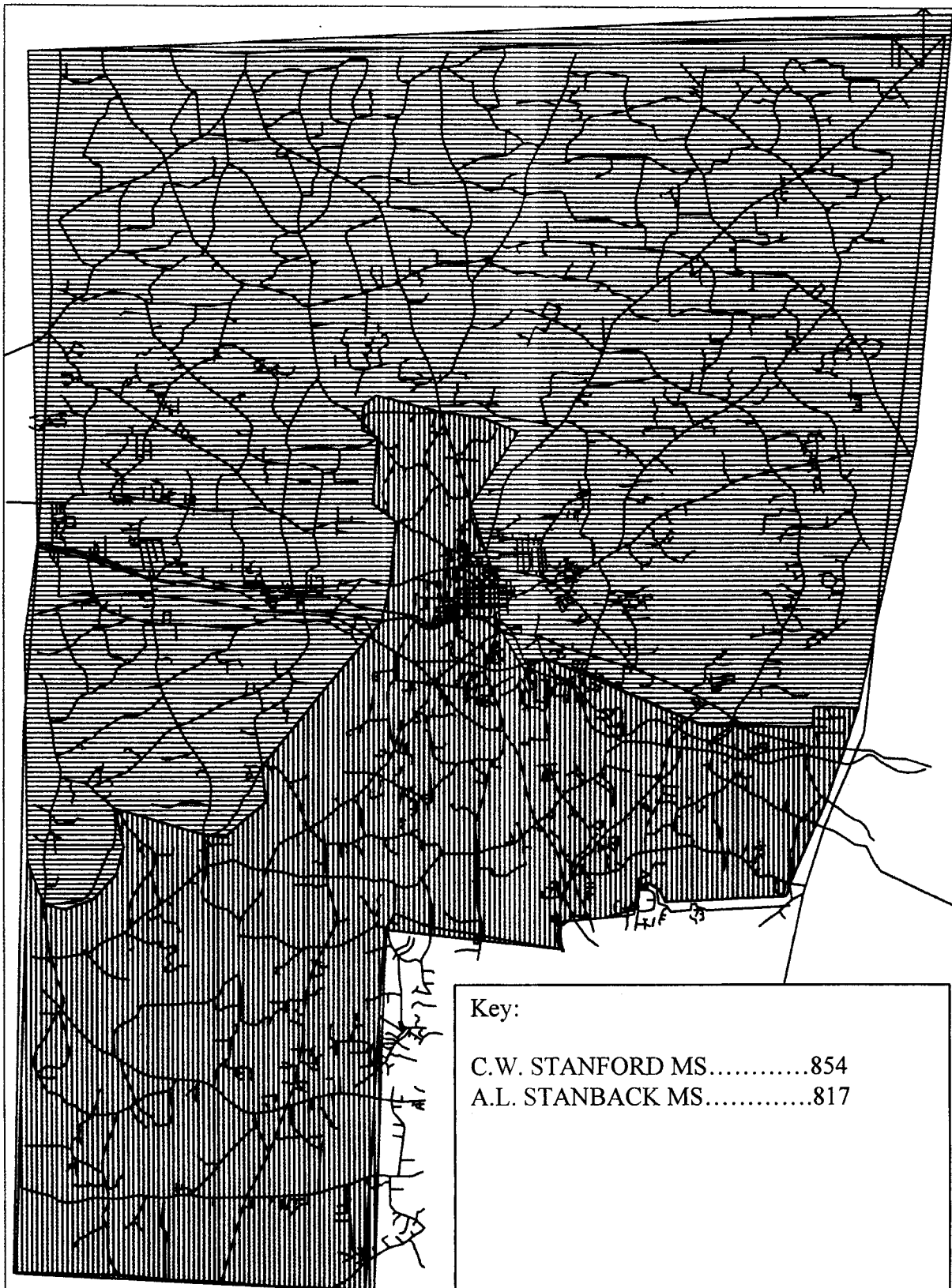
- 2005-2006 Move 517 students from Chapel Hill-Carrboro City Schools to Orange County Schools (Movement unlikely for one year. CHCCS opens high school #3 fall 2006)
- 2006-2007 Adequate capacity
- 2007-2008 Adequate capacity
- 2008-2009 Adequate capacity
- 2009-2010 Move 54 students from CHCCS to OCS
- 2010-2011 Move 146 students from CHCCS to OCS
- 2011-2012 Move 324 students from CHCCS to OCS
- 2012-2013 Move 475 students from CHCCS to OCS
- 2013-2014 Move 538 students from CHCCS to OCS



KEY:

CAMERON PARK ELEM.....	392
CENTRAL ELEM.....	311
EFLAND CHEEKS ELEM.....	426
GRADY A. BROWN ELEM.....	471
PATHWAYS ELEM.....	532
HILLSBOROUGH ELEM.....	396
(not designated)	

Inch = 1/7292.35 Feet

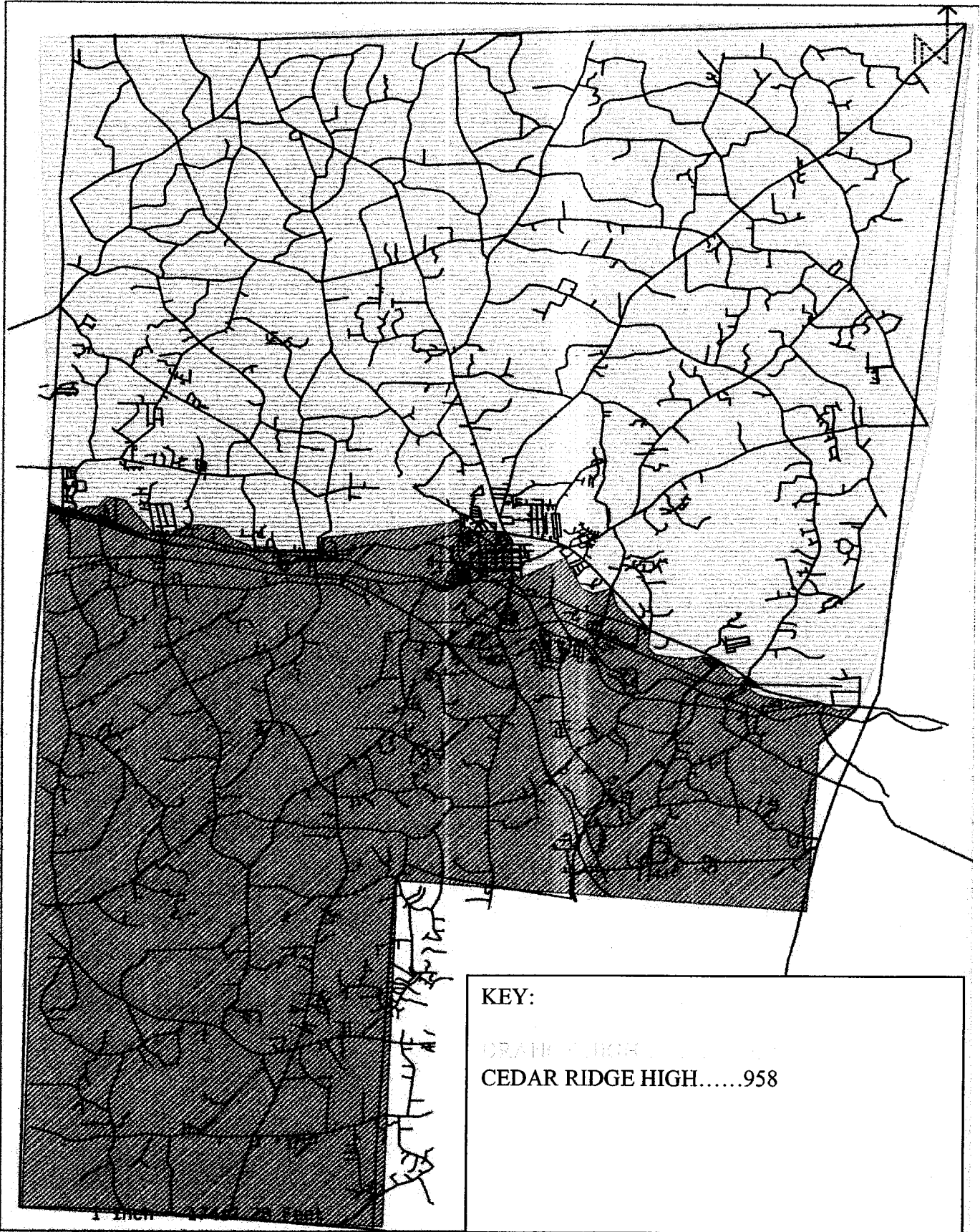


Key:

C.W. STANFORD MS.....854

A.L. STANBACK MS.....817

Inch



KEY:

DRAINAGE DITCH

CEDAR RIDGE HIGH.....958