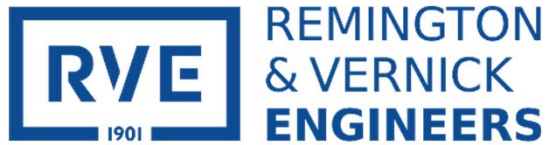


**Master Planning Services**  
**Manheim Township School District**  
April 11, 2019



922 Fayette Street  
Conshohocken, PENNSYLVANIA 19428

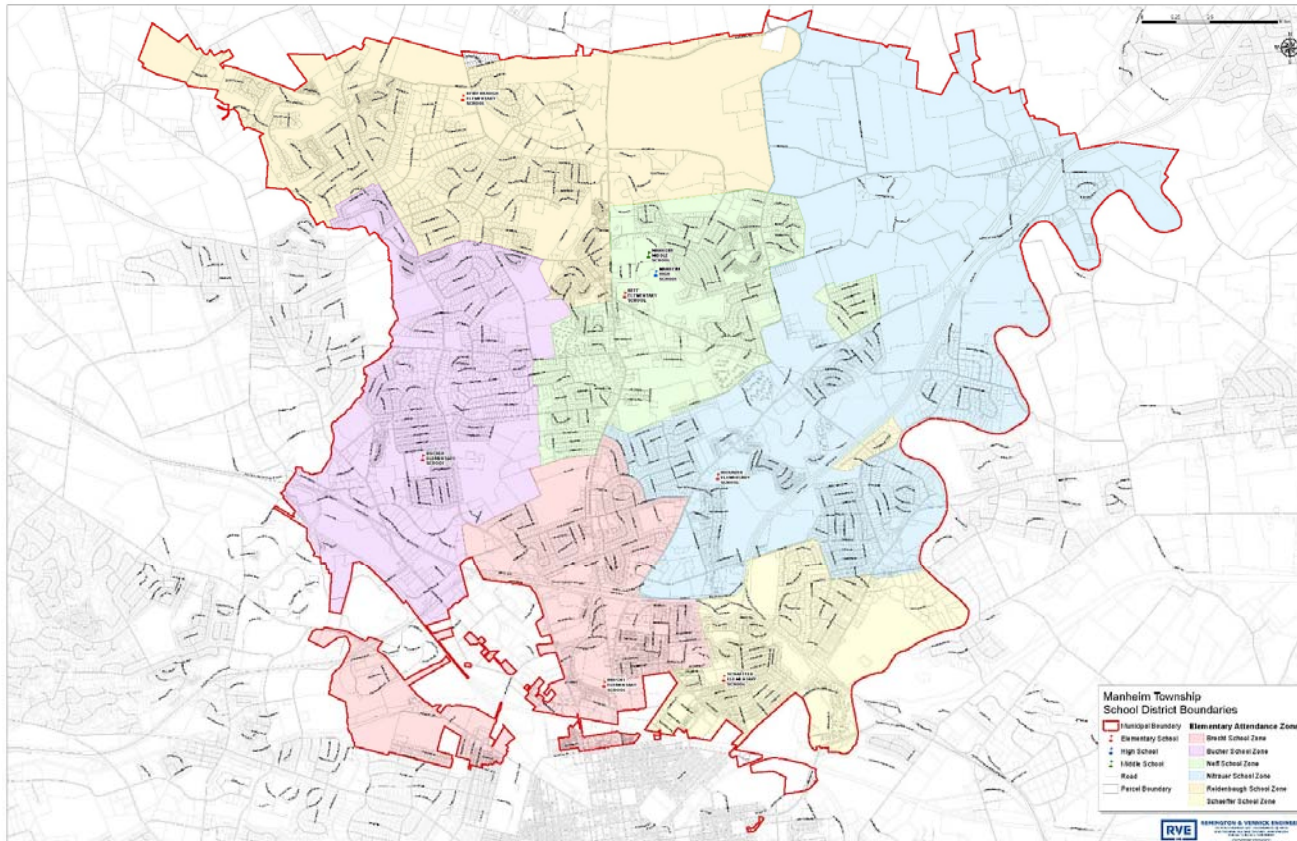


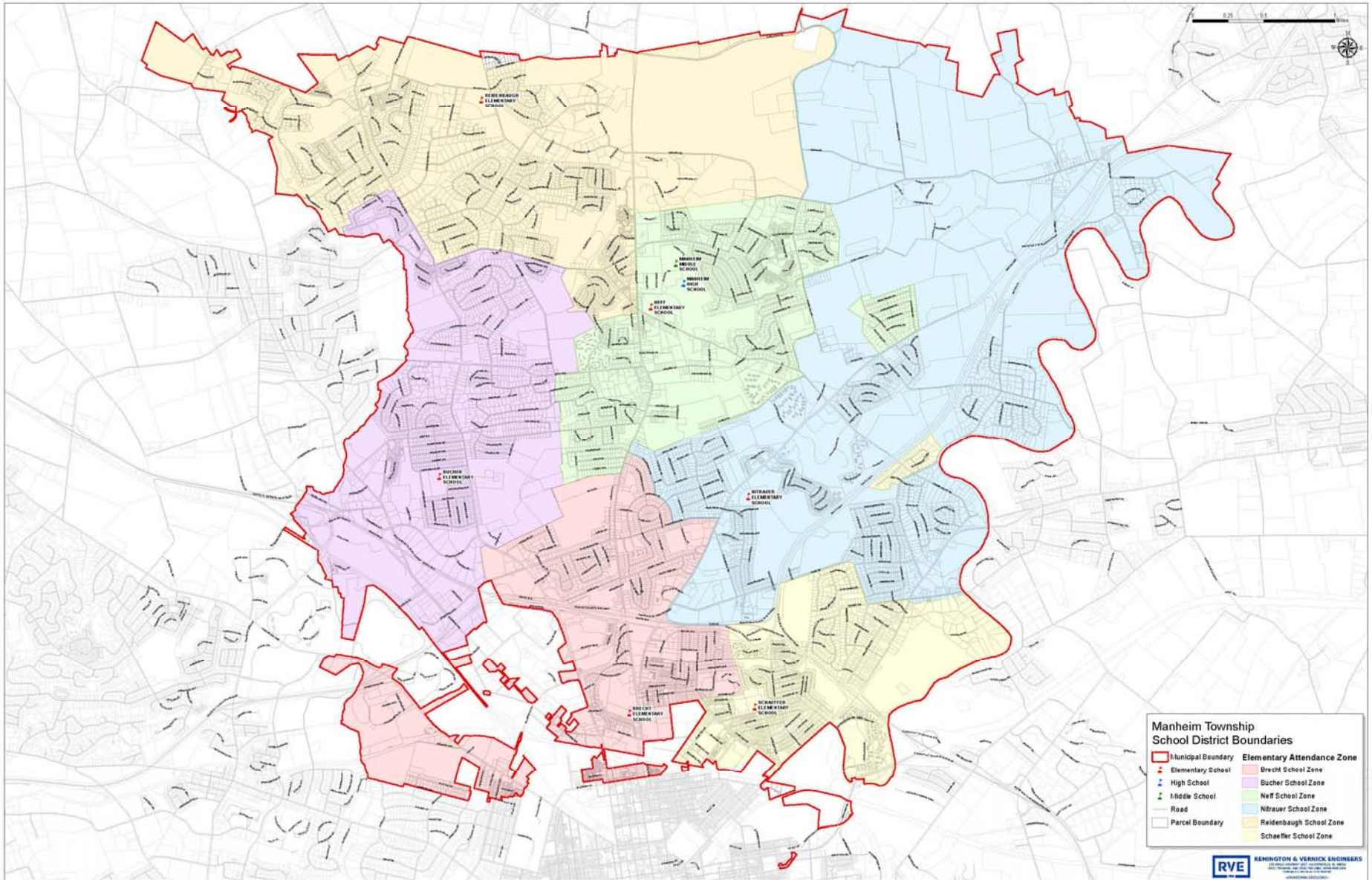
# Agenda

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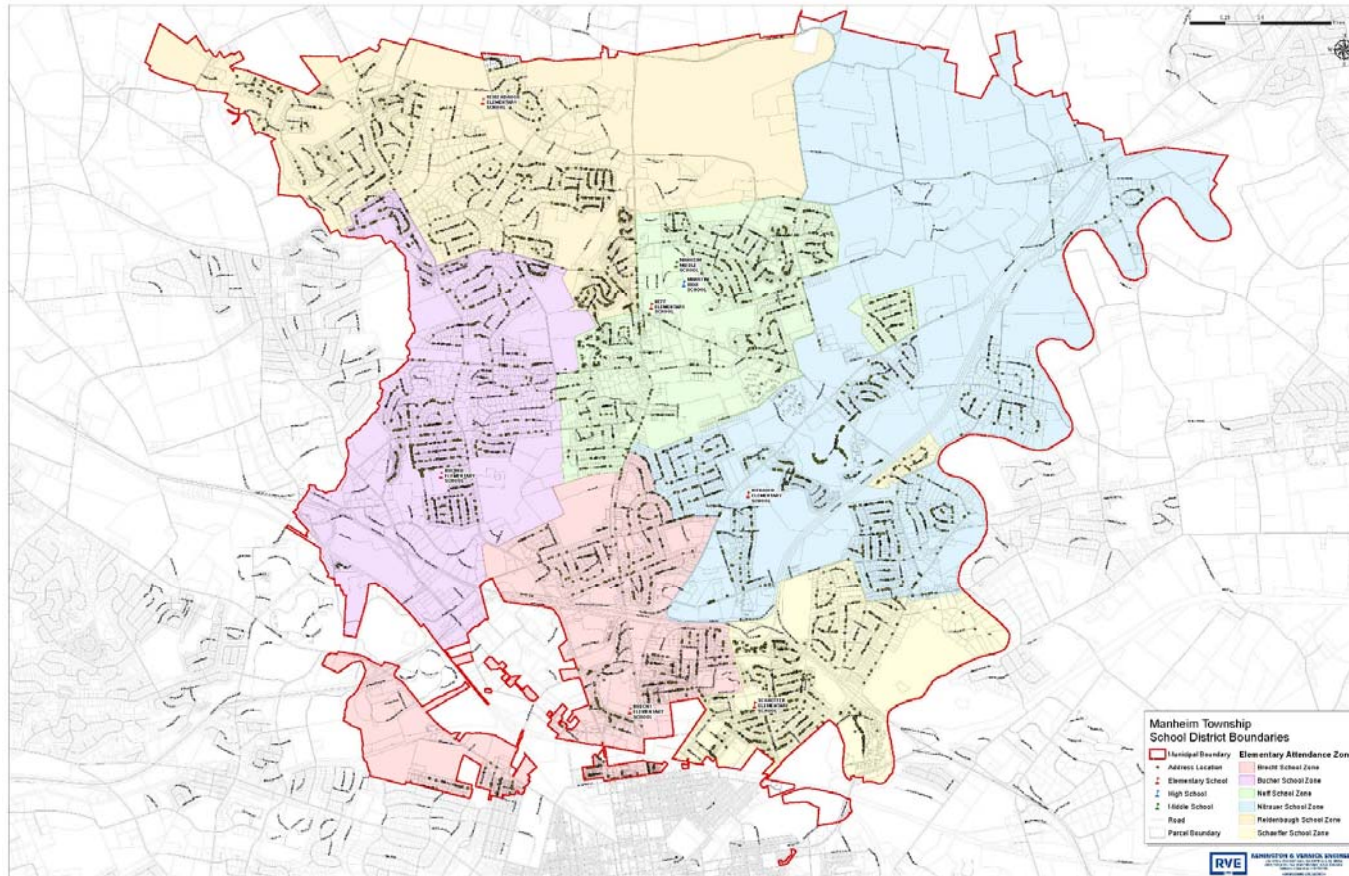
- Team Introduction
  - Annina Hogan, PE, RA, LEED AP (RVE)
  - Ashton Jones, AICP (RVE)
  - Christopher Gross, Cartographer/GIS Specialist (RVE)
  - George Sundell, Demographer (Sundance Associates)
- Master Planning – Phase 1 Scope of Services
  - GIS Mapping of Schools & Students
  - GIS Mapping of Approved, Planned and Vacant Land
  - Enrollment Projection
    - Historical, Cohort-Survival, Approved Developments, Planned Development
    - Future Considerations for Vacant Land

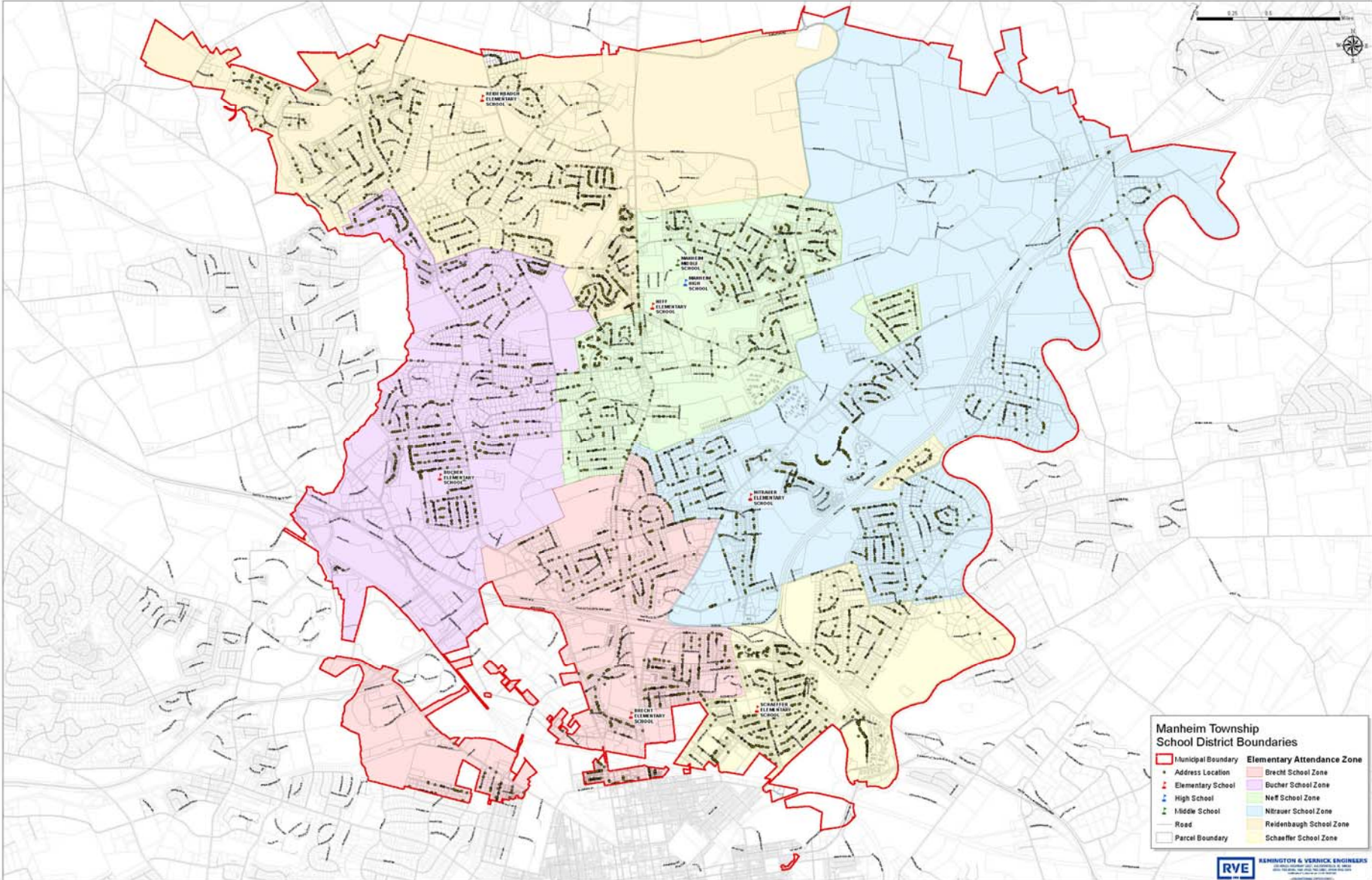
# District Map





# GIS Location of 2018-19 Enrolled Students



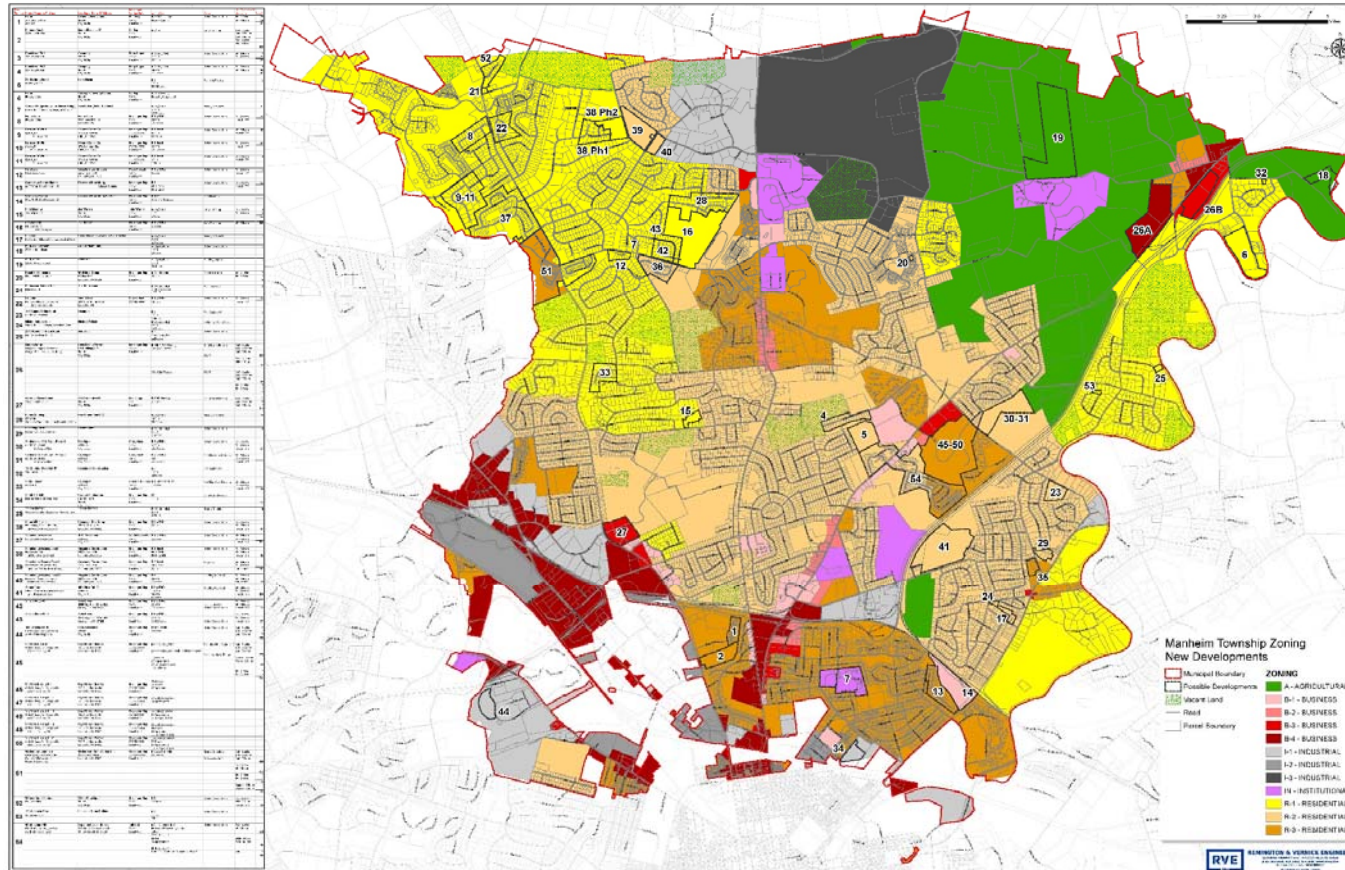


# Developmental Review with Township

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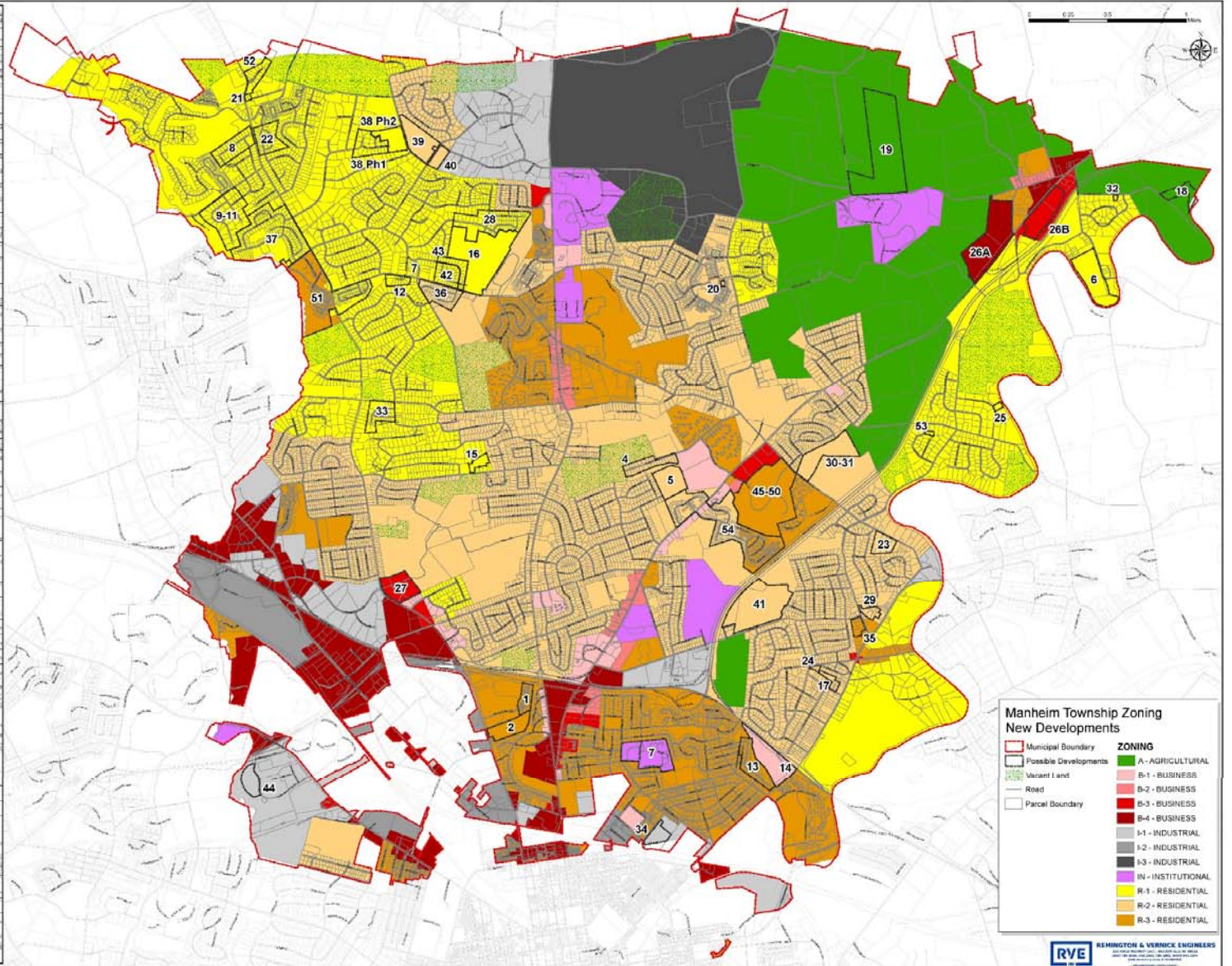
- Approved and Planned development list from Township Planner
- Map of all site locations for each location in GIS
- Separation of existing COs issued on approved housing
- Breakdown of Unit type from Township Planner
- Review of Vacant Land and Potential Redevelopment for long-term planning
- Review with each developer contact for Unit Type and anticipated forecast for permits/COs

# GIS Mapping - Development/Vacant Land

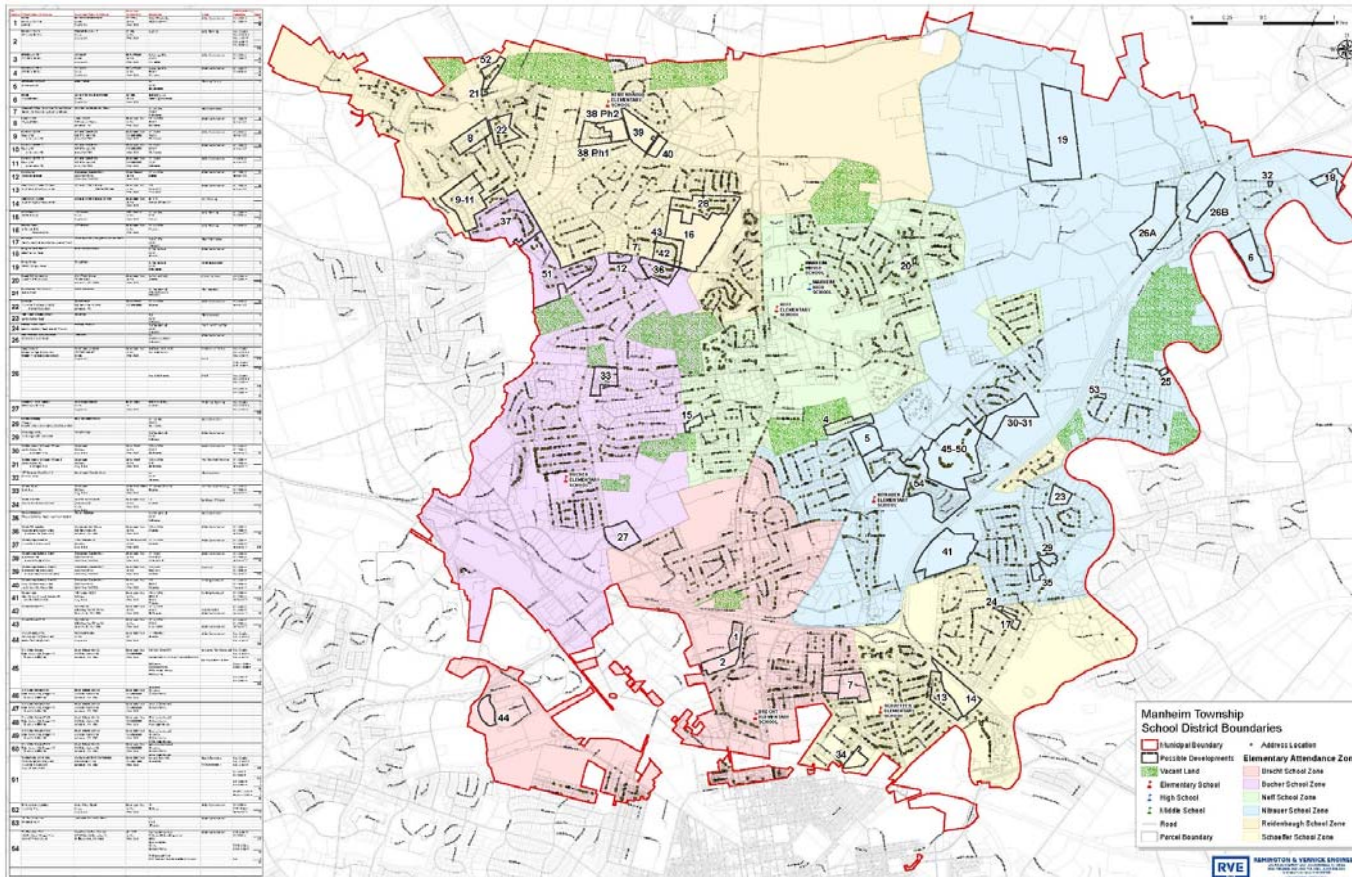




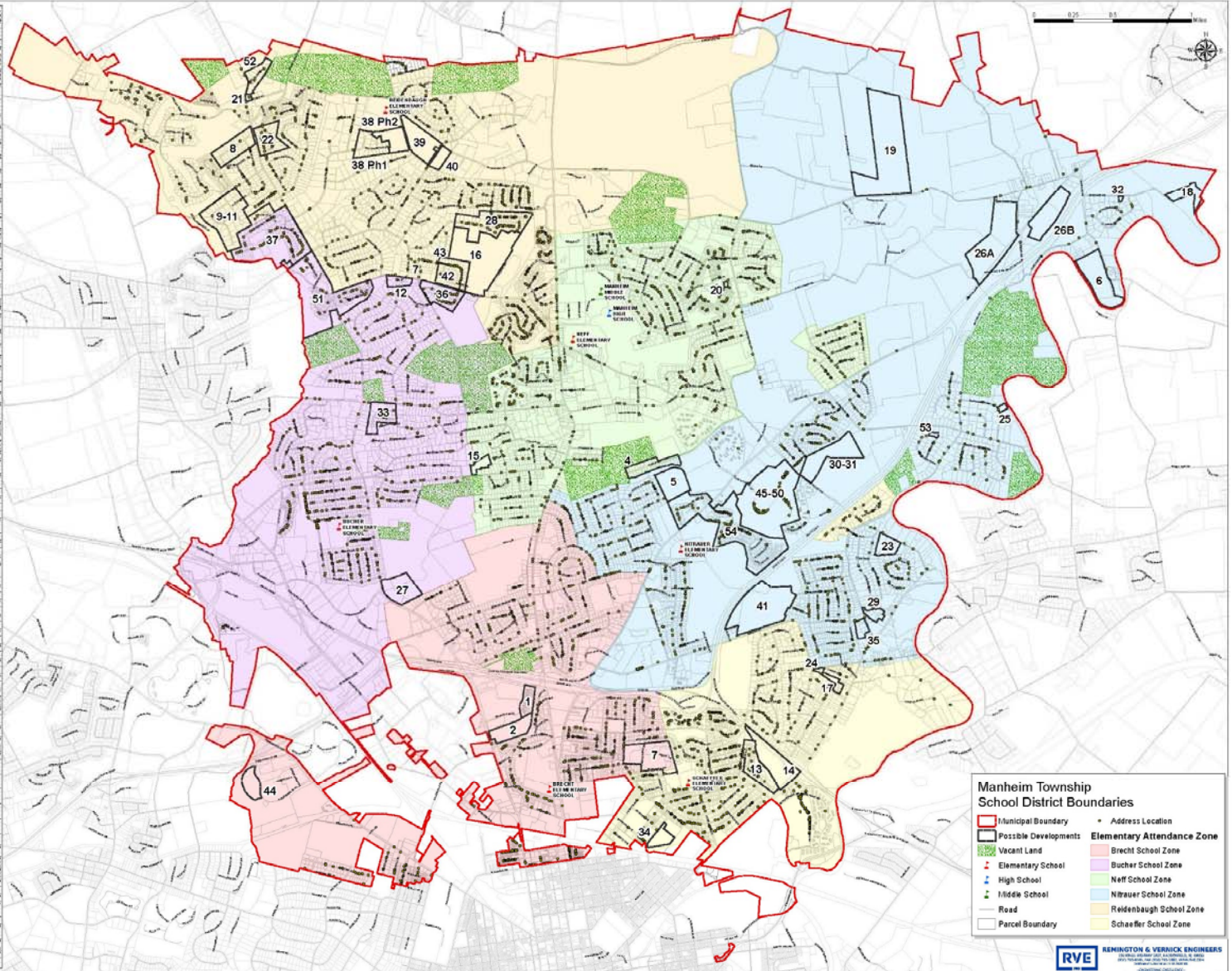
Parcel No.	Address	Owner	Area	Acres	Value
1	225 W. 1st St.	...	...	...	...
2	...	...	...	...	...
3	...	...	...	...	...
4	...	...	...	...	...
5	...	...	...	...	...
6	...	...	...	...	...
7	...	...	...	...	...
8	...	...	...	...	...
9	...	...	...	...	...
10	...	...	...	...	...
11	...	...	...	...	...
12	...	...	...	...	...
13	...	...	...	...	...
14	...	...	...	...	...
15	...	...	...	...	...
16	...	...	...	...	...
17	...	...	...	...	...
18	...	...	...	...	...
19	...	...	...	...	...
20	...	...	...	...	...
21	...	...	...	...	...
22	...	...	...	...	...
23	...	...	...	...	...
24	...	...	...	...	...
25	...	...	...	...	...
26	...	...	...	...	...
27	...	...	...	...	...
28	...	...	...	...	...
29	...	...	...	...	...
30	...	...	...	...	...
31	...	...	...	...	...
32	...	...	...	...	...
33	...	...	...	...	...
34	...	...	...	...	...
35	...	...	...	...	...
36	...	...	...	...	...
37	...	...	...	...	...
38	...	...	...	...	...
39	...	...	...	...	...
40	...	...	...	...	...
41	...	...	...	...	...
42	...	...	...	...	...
43	...	...	...	...	...
44	...	...	...	...	...
45	...	...	...	...	...
46	...	...	...	...	...
47	...	...	...	...	...
48	...	...	...	...	...
49	...	...	...	...	...
50	...	...	...	...	...
51	...	...	...	...	...
52	...	...	...	...	...



# GIS Mapping of Students and Developments



Parcel ID	Address	Area	Zone	Notes
1	1000 S. 1st St.	0.15	Elementary	
2	1002 S. 1st St.	0.15	Elementary	
3	1004 S. 1st St.	0.15	Elementary	
4	1006 S. 1st St.	0.15	Elementary	
5	1008 S. 1st St.	0.15	Elementary	
6	1010 S. 1st St.	0.15	Elementary	
7	1012 S. 1st St.	0.15	Elementary	
8	1014 S. 1st St.	0.15	Elementary	
9	1016 S. 1st St.	0.15	Elementary	
10	1018 S. 1st St.	0.15	Elementary	
11	1020 S. 1st St.	0.15	Elementary	
12	1022 S. 1st St.	0.15	Elementary	
13	1024 S. 1st St.	0.15	Elementary	
14	1026 S. 1st St.	0.15	Elementary	
15	1028 S. 1st St.	0.15	Elementary	
16	1030 S. 1st St.	0.15	Elementary	
17	1032 S. 1st St.	0.15	Elementary	
18	1034 S. 1st St.	0.15	Elementary	
19	1036 S. 1st St.	0.15	Elementary	
20	1038 S. 1st St.	0.15	Elementary	
21	1040 S. 1st St.	0.15	Elementary	
22	1042 S. 1st St.	0.15	Elementary	
23	1044 S. 1st St.	0.15	Elementary	
24	1046 S. 1st St.	0.15	Elementary	
25	1048 S. 1st St.	0.15	Elementary	
26	1050 S. 1st St.	0.15	Elementary	
27	1052 S. 1st St.	0.15	Elementary	
28	1054 S. 1st St.	0.15	Elementary	
29	1056 S. 1st St.	0.15	Elementary	
30	1058 S. 1st St.	0.15	Elementary	
31	1060 S. 1st St.	0.15	Elementary	
32	1062 S. 1st St.	0.15	Elementary	
33	1064 S. 1st St.	0.15	Elementary	
34	1066 S. 1st St.	0.15	Elementary	
35	1068 S. 1st St.	0.15	Elementary	
36	1070 S. 1st St.	0.15	Elementary	
37	1072 S. 1st St.	0.15	Elementary	
38	1074 S. 1st St.	0.15	Elementary	
39	1076 S. 1st St.	0.15	Elementary	
40	1078 S. 1st St.	0.15	Elementary	
41	1080 S. 1st St.	0.15	Elementary	
42	1082 S. 1st St.	0.15	Elementary	
43	1084 S. 1st St.	0.15	Elementary	
44	1086 S. 1st St.	0.15	Elementary	
45	1088 S. 1st St.	0.15	Elementary	
46	1090 S. 1st St.	0.15	Elementary	
47	1092 S. 1st St.	0.15	Elementary	
48	1094 S. 1st St.	0.15	Elementary	
49	1096 S. 1st St.	0.15	Elementary	
50	1098 S. 1st St.	0.15	Elementary	
51	1100 S. 1st St.	0.15	Elementary	
52	1102 S. 1st St.	0.15	Elementary	
53	1104 S. 1st St.	0.15	Elementary	
54	1106 S. 1st St.	0.15	Elementary	
55	1108 S. 1st St.	0.15	Elementary	
56	1110 S. 1st St.	0.15	Elementary	
57	1112 S. 1st St.	0.15	Elementary	
58	1114 S. 1st St.	0.15	Elementary	
59	1116 S. 1st St.	0.15	Elementary	
60	1118 S. 1st St.	0.15	Elementary	
61	1120 S. 1st St.	0.15	Elementary	
62	1122 S. 1st St.	0.15	Elementary	
63	1124 S. 1st St.	0.15	Elementary	
64	1126 S. 1st St.	0.15	Elementary	



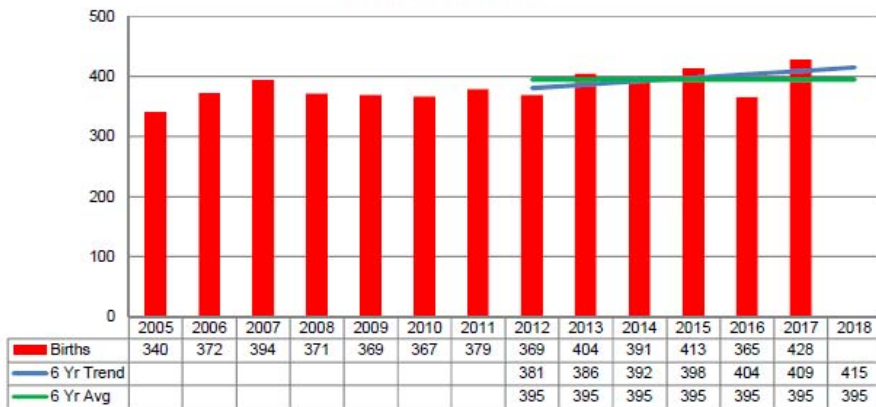
# Enrollment Project Review

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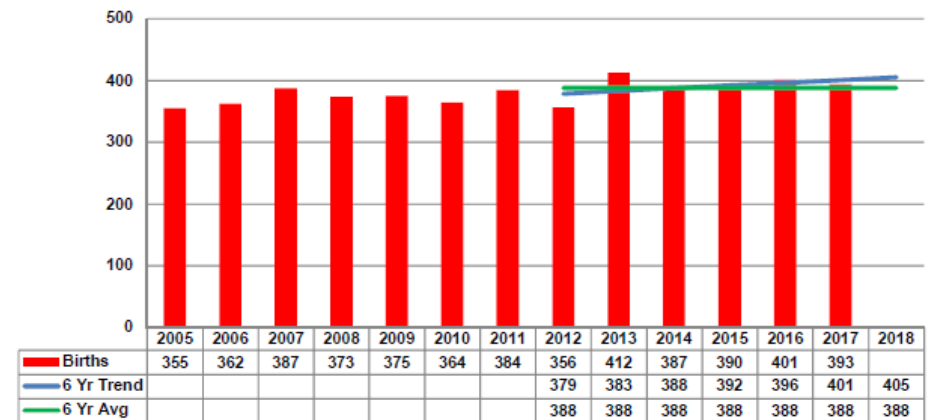
- Methodology
- Births review
- Historical Building Permit Review – average
- Projected Building Permits
- Development Forecast Review – units and timing
- Residential Multipliers
- Enrollment Projections

# Historical Birth Data – Manheim Township

Calendar Year Births

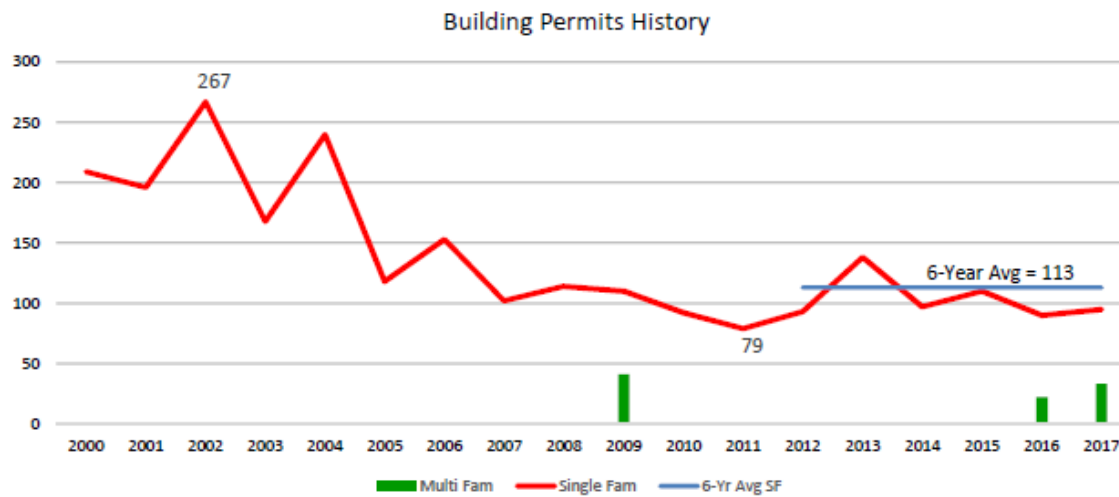


School Year Births-Sept-Aug



School Year Births correlate better with enrollments than does Calendar Year Births, and are used in this study. The trend is for 4-5 more births each year, but the methodology calls for the use of the 6-Year Average of 388 for those few years for which data is not yet available.

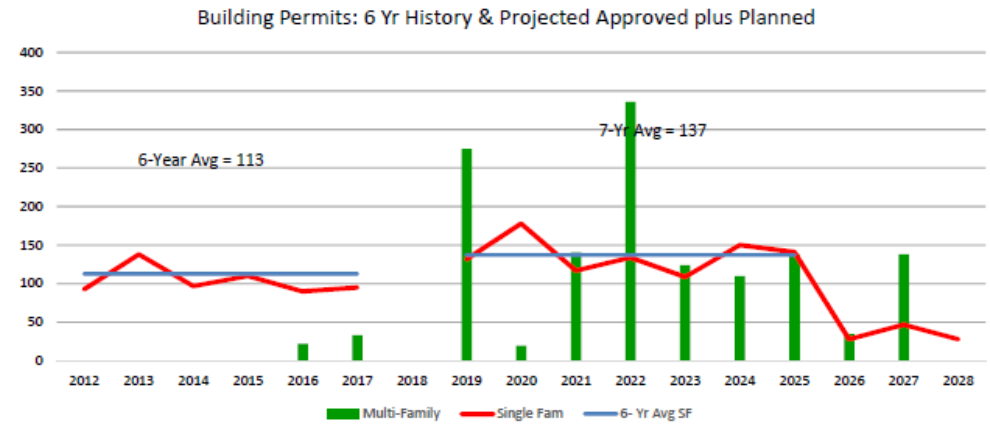
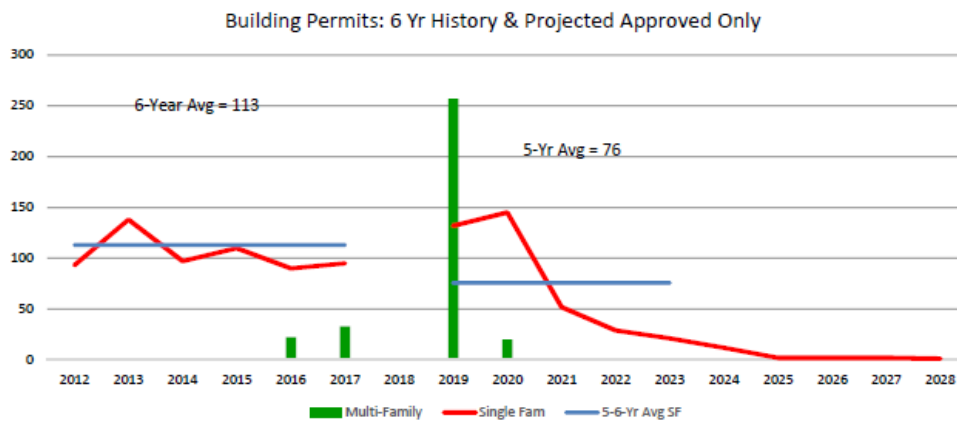
# Building Permit History



Building Permits have significantly decreased from the year 2002 high of 267 units per year. The recent 6-year average is for 113 units per year.

There were few Multi-Family Permits issued in the past. Most recently, permits for 22 units and 33 units were issued in 2016 and 2017 signalling a possible change in building type mix in Manheim Township.

# Projected Building Permits



The impact of 113 Single Family units per year is built into the Cohort Survival Rates. The difference between the 113 past average and the 137 units per year future average, if approved and planned move ahead, is only 1 student per grade level.

However, not adding in Single Family also assumes that Single Family developments in the past will geographically be the same as in the future.

Only the impact of new and significantly higher levels of Multi-Family are "added" to the standard projection.

# Projected Development New Unit Forecast

## APPROVED Residential Construction by Anticipated Year of Occupancy

Project Name	Unit	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	
1 Belmont - Residential	TH - 3 Bdrm	36	20	0	0	0	0	0	0	0	0	
	SF - 4 Bdrm	7	0	0	0	0	0	0	0	0	0	
44 The Crossings PRD	Apt -	15	0	0	0	0	0	0	0	0	0	
	Apt - 1 Bdrm	83	0	0	0	0	0	0	0	0	0	
	Apt - 2 Bdrm	105	0	0	0	0	0	0	0	0	0	
	Apt - 3 Bdrm	18	0	0	0	0	0	0	0	0	0	
		264	20	0	0	0	0	0	0	0	0	284 Brecht ES
12 Fern Lane	SF - 4 Bdrm	3	3	0	0	0	0	0	0	0	0	
33 Spring Haven	SF - 4 Bdrm	6	0	0	0	0	0	0	0	0	0	
36 Stone Mill Estates	SF - 4 Bdrm	3	0	0	0	0	0	0	0	0	0	
37 Stonehenge Reserve	SF - 4 Bdrm	15	16	0	0	0	0	0	0	0	0	
38 Stonehenge Estates	SF - 4 Bdrm	15	15	11	0	0	0	0	0	0	0	
		42	34	11	0	0	0	0	0	0	0	87 Bucher ES
4 Brooklawn Ph 1 & 2	SF - 4 Bdrm	8	8	12	12	12	10	0	0	0	0	
15 High Meadow	SF - 4 Bdrm	4	4	3	0	0	0	0	0	0	0	
		12	12	15	12	12	10	0	0	0	0	73 Neff ES
30 Settlements of LV East - P	SF - 4 Bdrm	5	15	15	15	7	0	0	0	0	0	
53 191 Windover Turn	SF - 4 Bdrm	1	0	0	0	0	0	0	0	0	0	
54 Worthington PRD	SF - 4 Bdrm	16	45	1	0	0	0	0	0	0	0	
	TH 3 Bdrm	15	15	0	0	0	0	0	0	0	0	
		37	75	16	15	7	0	0	0	0	0	150 Nitrauer ES
8 Essex Court	SF - 4 Bdrm	10	7	0	0	0	0	0	0	0	0	
9 Farm on QR-Ph 1-III	SF - 4 Bdrm	2	2	2	2	2	2	2	2	2	1	
22 Landale	SF - 4 Bdrm	3	0	0	0	0	0	0	0	0	0	
43 Sunset Ridge Ph II	SF - 4 Bdrm	8	7	0	0	0	0	0	0	0	0	
52 Willows Bend Estates	SFD - 4 Bdrm	3	0	0	0	0	0	0	0	0	0	
		26	16	2	2	2	2	2	2	2	1	57 Reidenbaugh ES
14 Grandview Charter Home	SF - 4 Bdrm	8	8	8	0	0	0	0	0	0	0	
		8	8	8	0	0	0	0	0	0	0	24 Schaeffer ES
		675										675
<b>Approved Housing Total</b>		389	165	52	29	21	12	2	2	2	1	
	Single Family	117	130	52	29	21	12	2	2	2	1	368
	Multi Family	272	35	0	0	0	0	0	0	0	0	307
		675										675
	SF above 113	4	17	-61	-84	-92	-101	-111	-111	-111	-112	

## PLANNED Residential Construction by Anticipated Year of Occupancy

Project Name	Unit	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	
2 Belmont South	Apt - Studio	0	0	0	10	0	0	0	0	0	0	
	Apt - 1	0	0	0	20	0	0	0	0	0	0	
	Apt - 2 Bdrm	0	0	0	45	0	0	0	0	0	0	
	SFc - 4 Bdrm	0	0	0	25	0	0	0	0	0	0	
		0	0	0	100	0	0	0	0	0	0	100
27 Overlook Town Center	Apt - Studio	0	0	0	8	0	0	0	0	0	0	
	Apt - 1 Bdrm	0	0	0	35	0	0	0	0	0	0	
	Apt - 2 Bdrm	0	0	0	60	0	0	0	0	0	0	
		0	0	0	103	0	0	0	0	0	0	103
6 286 Bushong Road	SFD - 4 Bdrm	0	0	0	20	20	20	0	0	0	0	
19 King, Amos	SF - 4 Bdrm	0	30	30	30	30	30	25	0	0	0	
23 1981 Landis Valley Road	SF - 4 Bdrm	0	3	0	0	0	0	0	0	0	0	
26 Oregon Dairy	Apt - Studio	0	0	16	16	0	0	0	0	0	0	
	Apt - 1 Bdrm	0	0	45	45	0	0	0	0	0	0	
	Apt - 2 Bdrm	0	0	16	16	0	0	0	0	0	0	
	Apt - Studio	0	0	0	20	20	24	0	0	0	0	
	Apt - 1 Bdrm	0	0	0	70	70	70	19	0	0	0	
	Apt - 2 Bdrm	0	0	0	20	20	24	0	0	0	0	
	TH - 2 Bdrm	0	0	0	0	0	0	10	0	0	0	
	TH - 3 Bdrm	0	0	0	0	0	0	6	0	0	0	
30 Settlements of LV East - P	SF - 4 Bdrm	0	0	0	0	8	15	4	0	0	0	
41 Stoner Farm	SF - 3 Bdrm	0	0	0	0	0	1	1	1	1	1	
	SF - 4 Bdrm	0	0	0	0	0	25	25	26	26	26	
	TH - 2 Bdrm	0	0	0	0	0	8	0	0	0	0	
	TH - 3 Bdrm	0	0	0	0	0	10	0	0	0	0	
45 V of Olde Hickery-Ph II	Apt - Studio	6	0	6	0	0	0	6	0	6	0	
	Apt - 1 Bdrm	18	0	22	0	0	0	22	0	22	0	
	Apt - 2 Bdrm	30	0	36	0	0	0	36	0	36	0	
	Townhouses	0	0	0	0	0	0	44	0	74	0	
	Townhouses	-36	0	0	0	-66	0	-106	0	0	0	
	SFc 3 Bdrm	0	0	5	0	0	0	11	0	18	0	
		18	33	176	127	102	175	204	61	183	27	1106
16 Hoover Farm	SF - 4 Bdrm	0	0	30	30	30	30	30	0	0	0	
39 Stonehenge Estates Ph 1	SF - 4 Bdrm	0	0	0	0	0	32	32	0	0	0	
	Ph 2	0	0	0	0	0	11	11	0	0	0	
		0	0	30	30	30	73	73	0	0	0	236
34 Stehli Silk Mill	Apt - 1 Bdrm	0	0	0	31	30	0	0	0	0	0	
	Apt - 2 Bdrm	0	0	0	50	50	0	0	0	0	0	
		0	0	0	81	80	0	0	0	0	0	161
<b>Planned Housing Total</b>		18	33	206	441	212	248	277	61	183	27	1706
	Single Family	0	33	65	105	88	138	139	26	45	27	666
	Multi Family	18	0	141	336	124	110	138	35	138	0	1040
		1706										1706
	SF above 113						25	26				





# Residential Multipliers

Type	# Bdrms	Multiplier Public SAC
Apt	1 Bdrm	0.05
Apt	2 Bdrm	0.25
Apt	3 Bdrm	1.20
TH	2 Bdrm	0.30
TH	3 Bdrm	0.57
Single	4 Bdrm	1.00

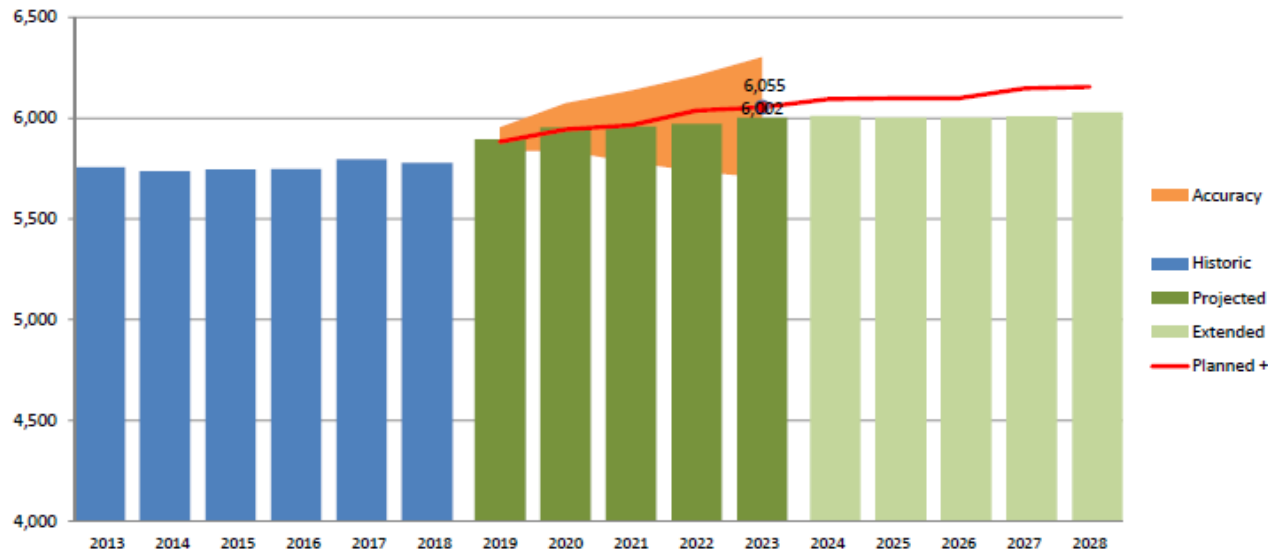


- To estimate the number of School Age Children (SAC) or the Public School Age Children (PSAC), “multipliers” for unit types and bedroom counts are applied to the number of units.
- After determination of the number of School Age Children, they are scheduled for entry into the school system based upon the construction and occupancy schedule.
- The source for the multipliers is ***Who Lives in Pennsylvania Housing, a Quick Guide to Pennsylvania Residential Demographic Multipliers*** by the Center for Urban Policy Research of the Edward J. Bloustein School of Planning and Public Policy at Rutgers, The State University of New Jersey, as developed from the 2000 U. S. Census.
- Six different multipliers are used in this study for Types of Housing (Rental Apartments & Condominiums, Townhouses and Single Family) and Number of Bedrooms.
- Application of the multipliers for unit types determines that 675 APPROVED units over five years (beginning in year 2019) will generate 121 additional Public School Age Children.
- In an alternate analysis, application of the multipliers for unit types determines that 2,381 APPROVED and PLANNED units over ten years will generate 291 additional Public School Age Children.
- In both projections, only Single Family housing above 113 units per year, generates additional students. All Multi-family housing generates additional students.

# Enrollment Projections: 5 & 10 year looks

Manheim Township  
District Wide

District Wide Enrollments K-12



## Manheim Township

135 Student increase from STANDARD Projection in 5 years  
 224 Students from STANDARD plus APPROVED housing in 5 years  
 277 Students from STANDARD, APPROVED + PLANNED in 5 years  
 101 Add'l Students from STANDARD, APPROVED + PLANNED in 6-10 years

	TOTAL	Average	Change	%Chg	w/ Planned
<b>Historical</b>	<b>2013</b>	5,756			
	<b>2014</b>	5,737			
	<b>2015</b>	5,745			
	<b>2016</b>	5,748	5,760		
	<b>2017</b>	5,795			
	<b>2018</b>	5,778	22	0.4%	
<b>Projected</b>	<b>2019</b>	5,894			5,882
	<b>2020</b>	5,955			5,044
	<b>2021</b>	5,957	5,956		5,965
	<b>2022</b>	5,972			6,038
	<b>2023</b>	6,002	224	3.8%	6,055 277
<b>Extended</b>	<b>2024</b>	6,010			6,094
	<b>2025</b>	6,003			6,099
	<b>2026</b>	6,003	6,010		6,099
	<b>2027</b>	6,007			6,148
	<b>2028</b>	6,028	26	0.4%	6,156 101

### ACCURACY

The accuracy of Cohort Survival projections is  $\pm 1\%$  per year lying within the golden cone on the chart above.

### GRAPH COLORS

Historical Enrollments for 6-years are in blue.  
 Projections for 1 to 5 years are in green.  
 Extended Projections for 6 to 10 years are in light green.

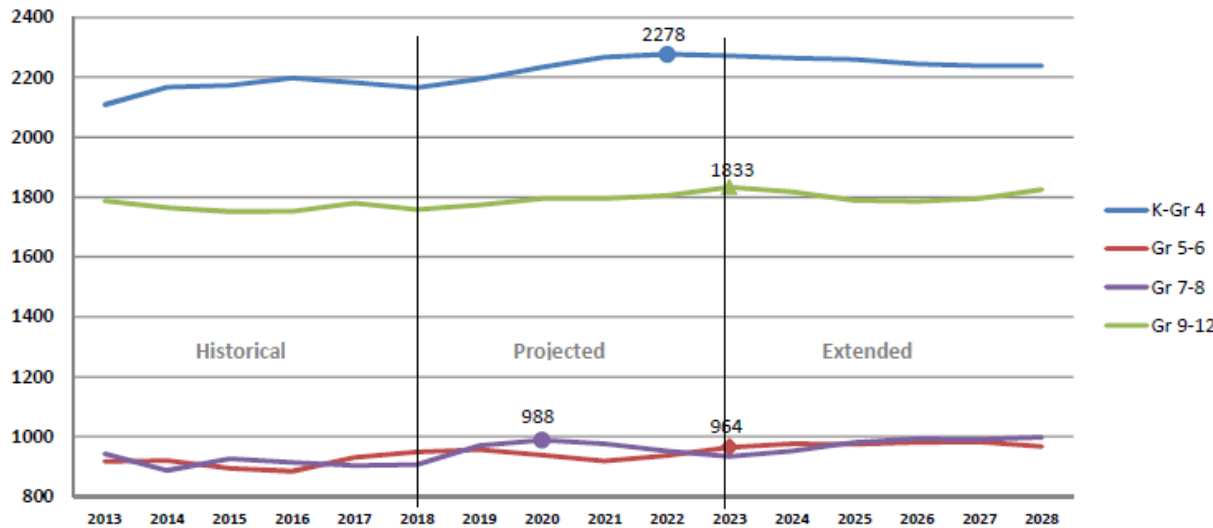
### ENROLLMENT

District-wide enrollment, with new Approved housing will increase 224 students by year 2023.

District-wide enrollment, with new Approved and Planned housing will increase 277 students by year 2023.

# Grade Level Impacts (Approved Developments)

Comparative Enrollments by Grade Level Organization



Manheim Township  
Comparative Enrollments by Grade Level Organization  
Standard Projection with Approved Housing

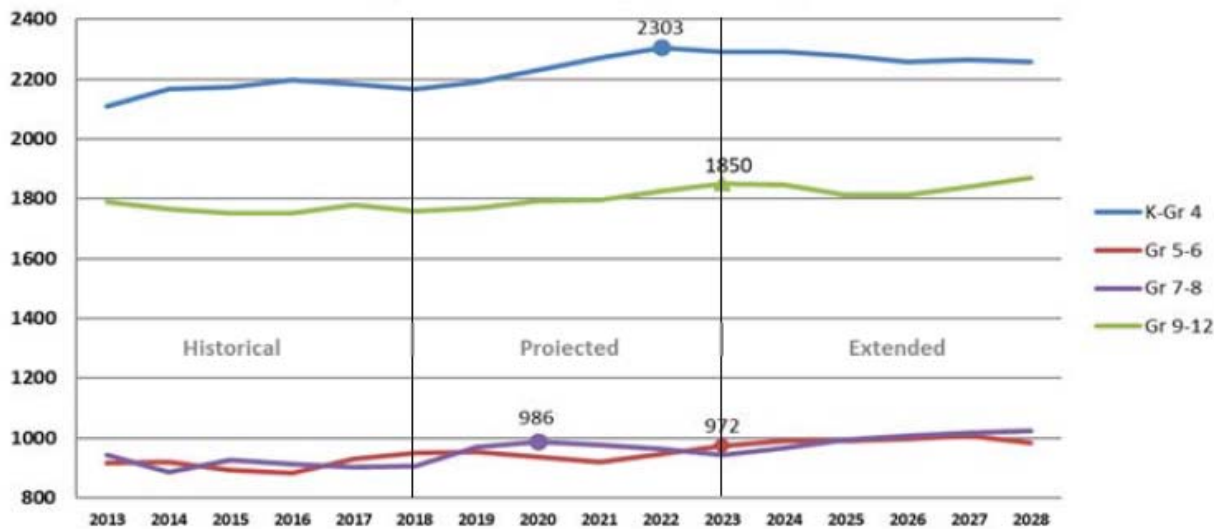
		K-Gr 4	Gr 5-6	Gr 7-8	Gr 9-12	TOTAL
<b>Historical</b>	2013	2109	917	942	1788	5756
	2014	2167	919	887	1764	5737
	2015	2173	894	926	1752	5745
	2016	2197	884	914	1753	5748
	2017	2182	931	903	1779	5795
	2018	2165	949	906	1758	5778
<b>Projected</b>	2019	2194	956	971	1774	5894
	2020	2234	938	988	1796	5955
	2021	2268	918	976	1795	5957
	2022	2278	937	952	1806	5972
	2023	2272	964	933	1833	6002
	2024	2264	976	952	1818	6010
<b>Extended</b>	2025	2259	975	980	1789	6003
	2026	2244	981	992	1785	6003
	2027	2238	982	991	1796	6007
	2028	2238	966	998	1826	6028

HIGH 5 Yr Projection

LOW

# Grade Level Impacts (Approved & Planned)

Comparative Enrollments by Grade Level Organization



Comparative Enrollments by Grade Level Organization  
Standard Projection with Approved and Planned Housing

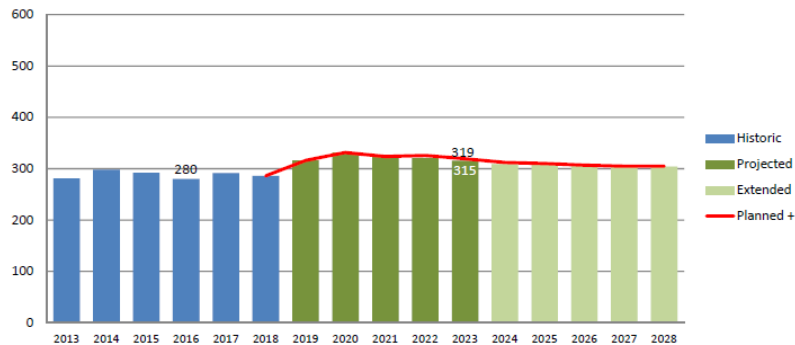
		K-Gr 4	Gr 5-6	Gr 7-8	Gr 9-12	TOTAL
Historical	2013	2109	917	942	1788	5756
	2014	2167	919	887	1764	5737
	2015	2173	894	926	1752	5745
	2016	2197	884	914	1753	5748
	2017	2182	931	903	1779	5795
	2018	2165	949	906	1758	5778
Projected	2019	2189	954	969	1770	5882
	2020	2230	936	986	1792	5944
	2021	2272	919	977	1797	5965
	2022	2303	946	963	1825	6038
	2023	2291	972	942	1850	6055
Extended	2024	2291	990	967	1845	6094
	2025	2277	989	993	1814	6073
	2026	2257	998	1007	1812	6074
	2027	2265	1006	1016	1839	6125
	2028	2259	984	1023	1869	6135

■ HIGH 5 Yr Projection  
■ LOW

# Elementary School Impacts (Brecht & Bucher)

## Brecht Elementary School

Enrollment by Year



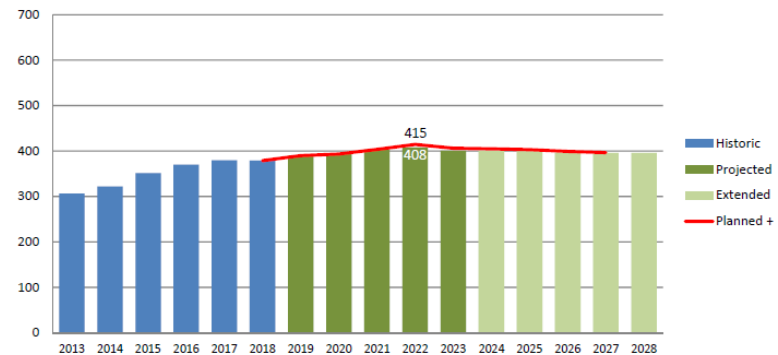
### Brecht Elementary School

23 Student increase from STANDARD Projection in 5 years  
 29 Students from STANDARD plus APPROVED housing in 5 years  
 33 Students from STANDARD, APPROVED + PLANNED in 5 years  
 -15 Add'l Students from STANDARD, APPROVED + PLANNED in 6-10 years

		K	1	2	3	4	UG	TOTAL	Average	Change	% Chg	App Plus Planned
Historic	2013	62	43	65	57	54	0	281				
	2014	66	58	52	68	54	0	298				
	2015	45	66	63	52	65	1	292				
	2016	64	42	55	68	51	0	280	288			
	2017	52	65	43	56	70	5	291				
	2018	58	56	64	47	61	0	286		5	1.8%	286
Projected	2019	65	63	63	72	53	0	316				316
	2020	61	65	65	67	73	0	331				331
	2021	61	60	67	69	67	0	324	321			324
	2022	60	61	61	70	69	0	321				326
	2023	60	60	62	64	70	0	315		29	9.3%	319
Extended	2024	60	59	61	65	64	0	309				312
	2025	60	58	60	64	65	0	307				310
	2026	60	59	60	63	64	0	305	306			307
	2027	60	59	60	62	63	0	304				305
	2028	60	59	60	63	62	0	304		-11	-3.7%	305

## Bucher Elementary School

Enrollment by Year



### Bucher Elementary School

22 Student increase from STANDARD Projection in 5 years  
 22 Students from STANDARD plus APPROVED housing in 5 years  
 27 Students from STANDARD, APPROVED + PLANNED in 5 years  
 -10 Add'l Students from STANDARD, APPROVED + PLANNED in 6-10 years

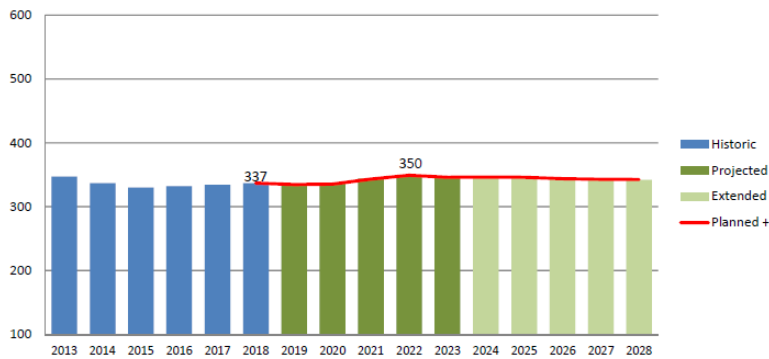
		K	1	2	3	4	UG	TOTAL	Average	Change	% Chg	App Plus Planned
Historic	2013	64	59	69	53	53	8	306				
	2014	59	65	67	63	58	10	322				
	2015	73	66	73	70	68	1	351				
	2016	70	80	69	74	65	12	370	351			
	2017	72	64	80	74	77	13	380				
	2018	77	69	71	77	69	16	379		73	23.9%	379
Projected	2019	71	79	75	71	78	16	390				390
	2020	72	73	85	75	72	17	394				394
	2021	74	73	79	85	76	17	403	399			403
	2022	72	75	79	79	86	17	408				415
	2023	71	73	81	79	80	17	401		22	5.6%	406
Extended	2024	71	73	79	81	80	17	401				405
	2025	71	72	78	79	82	17	400				403
	2026	71	73	78	78	80	17	397	398			399
	2027	71	73	78	77	79	17	396				397
	2028	71	72	78	78	79	17	396		-5	-1.3%	396



# Elementary School Impacts (Neff & Schaeffer)

## Neff Elementary School

Enrollment by Year



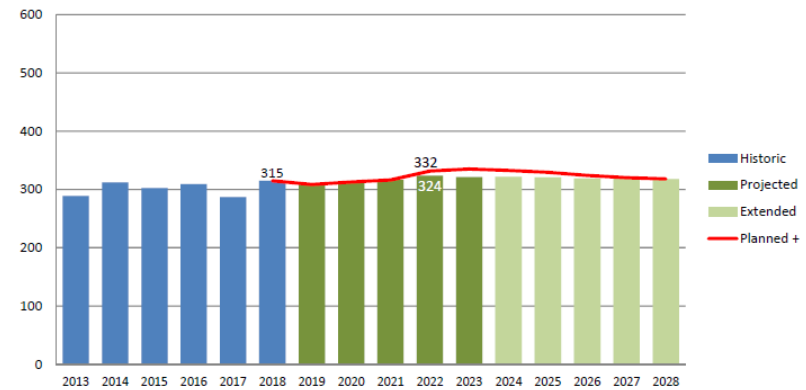
### Neff Elementary School

10 Student increase from STANDARD Projection in 5 years  
 10 Students from STANDARD plus APPROVED housing in 5 years  
 9 Students from STANDARD, APPROVED + PLANNED in 5 years  
 -4 Add'l Students from STANDARD, APPROVED + PLANNED in 6-10 years

		K	1	2	3	4	UG	TOTAL	Average	Change	% Chg	App Plus Planned
Historic	2013	67	74	62	69	73	2	347				
	2014	71	63	72	63	66	2	337				
	2015	64	68	62	72	61	3	330				
	2016	57	69	68	62	71	5	332	336			
	2017	63	59	72	68	68	4	334				
	2018	70	62	62	67	69	7	337		-10	-2.9%	337
Projected	2019	67	70	62	61	67	7	335				335
	2020	68	67	71	62	62	7	337				336
	2021	70	68	68	70	62	7	344	343			343
	2022	68	69	68	67	70	7	350				349
	2023	67	68	70	67	67	7	347		10	2.9%	346
Extended	2024	67	67	68	69	68	7	346				346
	2025	67	67	68	68	69	7	346				346
	2026	67	67	67	67	68	7	343	344			344
	2027	67	67	68	66	67	7	342				343
	2028	67	67	68	67	66	7	342		-5	-1.3%	343

## Schaeffer Elementary School

Enrollment by Year



### Schaeffer Elementary School

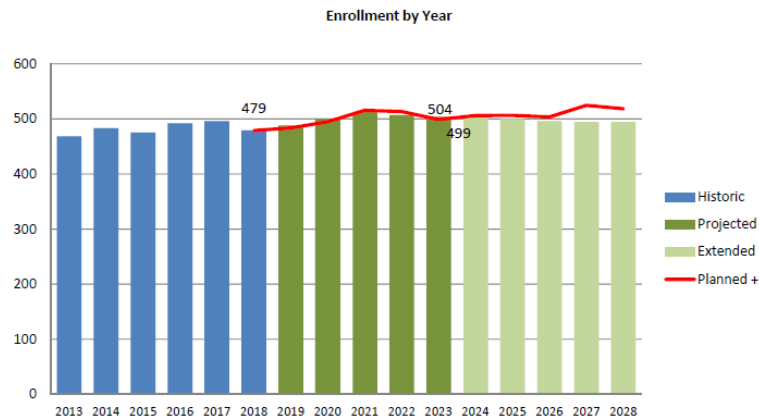
6 Student increase from STANDARD Projection in 5 years  
 6 Students from STANDARD plus APPROVED housing in 5 years  
 20 Students from STANDARD, APPROVED + PLANNED in 5 years  
 -17 Add'l Students from STANDARD, APPROVED + PLANNED in 6-10 years

		K	1	2	3	4	5	TOTAL	Average	Change	% Chg	App Plus Planned
Historic	2013	49	63	51	66	60	0	289				
	2014	73	56	63	51	69	0	312				
	2015	55	74	52	63	58	0	302				
	2016	58	57	76	53	65	0	309	302			
	2017	52	59	54	72	50	0	287				
	2018	62	57	61	59	71	0	315		26	9.0%	315
Projected	2019	60	66	56	62	61	0	309				309
	2020	60	63	65	57	63	0	313				313
	2021	62	64	62	65	58	0	316	317			316
	2022	61	65	63	63	67	0	324				332
	2023	60	64	64	63	65	0	321		6	2.0%	335
Extended	2024	60	64	63	65	65	0	322				333
	2025	60	63	62	64	67	0	321				329
	2026	60	63	62	63	66	0	319	319			324
	2027	60	63	62	62	65	0	318				320
	2028	60	63	62	63	64	0	318		-4	-1.1%	318



# Elementary School Impacts (Nitrauer & Reidenbaugh)

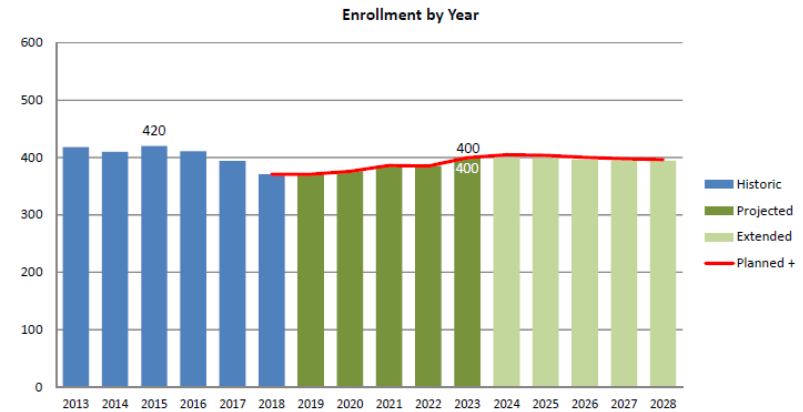
## Nitrauer Elementary School



Nitrauer Elementary School  
 24 Student increase from STANDARD Projection in 5 years  
 25 Students from STANDARD plus APPROVED housing in 5 years  
 20 Students from STANDARD, APPROVED + PLANNED in 5 years  
 19 Add'l Students from STANDARD, APPROVED + PLANNED in 6-10 years

		K	1	2	3	4	UG	TOTAL	Average	Change	% Chg	App Plus Planned
Historic	2013	65	115	93	92	96	7	468				
	2014	73	96	119	96	98	1	483				
	2015	65	96	95	117	101	1	475				
	2016	80	88	98	99	123	4	492	482			
	2017	80	106	97	102	106	5	496				
	2018	76	107	92	100	104	0	479		11	2.4%	479
Projected	2019	76	104	108	95	106	0	488				484
	2020	77	105	105	111	101	0	499				495
	2021	78	105	104	108	117	0	512	502			515
	2022	76	106	105	107	113	0	507				513
	2023	75	104	106	107	112	0	504		25	5.1%	499
Extended	2024	75	103	104	108	112	0	502				506
	2025	75	102	103	106	114	0	500				506
	2026	75	102	102	105	112	0	496	497			504
	2027	75	102	102	104	110	0	495				525
	2028	75	102	102	105	109	0	494		-10	-2.0%	518

## Reidenbaugh Elementary School



Reidenbaugh Elementary School  
 29 Student increase from STANDARD Projection in 5 years  
 29 Students from STANDARD plus APPROVED housing in 5 years  
 29 Students from STANDARD, APPROVED + PLANNED in 5 years  
 -3 Add'l Students from STANDARD, APPROVED + PLANNED in 6-10 years

		K	1	2	3	4	UG	TOTAL	Average	Change	% Chg	App Plus Planned
Historic	2013	75	85	78	79	97	4	418				
	2014	71	78	90	85	80	6	410				
	2015	73	79	83	91	89	5	420				
	2016	68	73	87	89	90	4	411	404			
	2017	75	67	73	82	92	5	394				
	2018	60	76	71	77	82	5	371		-47	-11.2%	371
Projected	2019	73	62	80	73	78	5	371				371
	2020	73	75	65	83	75	5	376				376
	2021	75	75	79	67	84	5	386	384			386
	2022	74	77	79	81	68	5	385				385
	2023	73	76	81	82	83	5	400		29	7.7%	400
Extended	2024	73	75	80	84	83	5	400				405
	2025	73	74	79	82	85	5	399				404
	2026	73	75	78	81	84	5	396	397			400
	2027	73	75	79	81	83	5	395				398
	2028	73	75	79	81	82	5	395		-5	-1.2%	397

# Next Steps

- Adding Long-term Forecast for Vacant land into projections
- Mapping of projected 5-year, 10-year and long-term projections
- Review Capacity of Each School
- Preparing for delayed reaction
  - Enrollment has been impressively stable with significant increase in housing stock
  - Potential for delayed reaction with new home sales and enrollment
  - Potential for delayed reaction home resale and enrollment
  - Data use needs to remain fluid
- Review Scenarios for addressing increase in enrollment