

Methodology Report for the Identification and Assignment of Students Residing within the 2-Mile Walking Limits of their Assigned School in Accordance with FDOE Criteria

November 10, 2009



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Methodology for Determining 2-Mile FTE Funding of Students

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Background, Situation and Disposition of 2-Mile Walking Assessment

Background: In evaluating the opening of East Ridge Middle School in the fall of 2008, the Transportation Department with the assistance of the Growth Planning Department asked that LPG Mapping & Computer Services, Inc. perform a cursory review of middle school students who had been historically transported to Windy Hill Middle School. This effort was to evaluate possible decisions regarding which areas might not be included for District Transportation based on the 2-mile radius from the new middle school for designing new bus routes.

Situation: A simple two-mile radius circle was drawn around the central core of the new middle school and the available middle school students were evaluated based on the most recent transportation survey. This cursory review revealed inconsistencies in the geographic location of the student riders as it related to their assigned transportation membership category as compared to the 2-mile radius circle. A second analysis was completed utilizing the same technique for Windy Hill Middle school and the previously observed conflicting results were apparent. It was the historical practice for Route Managers to utilize the rough 2-mile radius distance “as the crow flies” to determine the transportation assignments for the students since no other method was practical. After performing some research of the associated Florida Statutes and Florida Administrative Codes, along with Memorandum Opinions from the Florida Department of Education, it was determined that this technique was not appropriate to determine the respective transportation membership of the more than 22,000 students that opted for District transportation each year. This issue of drive distance vs. radius distance is greatly enhanced due to the impacts on road networks by the large number of water bodies that dot the landscape within Lake County.

Disposition: LPG was hired to determine a methodology and undertake the necessary analysis that would allow for the structured and consistent determination of students by address that would meet the letter of the law with regarding to 2-mile walking distance assessment as provided for in Chapter 6A-3.001 F.A.C. noted as follows and provided in Appendix 1: *6A-3.001 Basic Principals for Transportation of Students: (3) A reasonable walking distance for any student who is not otherwise eligible for transportation pursuant to Section 1011.68, Florida Statutes, is any distance not more than two (2) miles between the home and school or one and one-half (1 1/2) miles between the home and the assigned bus stop. Such distance shall be measured from the closest pedestrian entry point of the property where the student resides to the closest pedestrian entry point of the assigned school building or to the assigned bus stop. The pedestrian entry point of the residence shall be where private property meets the public right-of-way. The district shall determine the shortest pedestrian route whether or not it is accessible to motor vehicle traffic.*

The provisions for student transportation are heavily regulated by the State through the Florida Department of Education, particularly for funding reimbursement purposes to the local school districts. Two sets of Florida Statutes are of particular interest in this process and involve Chapter 1006.21 F.S. and 1011.68 F.S. Chapter 1006.21 F.S. specifically relates to the duties of the Superintendent and School Board regarding the transportation of students (see Appendix 2). The issue of “reasonable walking distance” is referenced in 1006.21(3)(a) F.S. and reads as follows: *“Shall provide transportation for each student in pre-kindergarten disability programs and in kindergarten through grade 12 membership in a public school when, and only when, transportation is necessary to provide adequate educational facilities and opportunities which otherwise would not be available and to transport students whose homes are more than a reasonable walking distance, as defined by rules of the State Board of Education, from the nearest appropriate school.”* Chapter 1011.68 deals with the funding allocation aspects of student transportation, (see Appendix 3) which relates to the primary interest of the District to adequately collect the appropriate FTE funds that are available from the State and ensure compliance with the law. The provisions of Chapter 1001.68(1)(a) place the sole responsibility of determining students living more than 2-miles from school on the school district, which reads as follows: *“(1) Subject to the rules of the State Board of Education, each district shall determine the membership of students who are transported: (a) By reason of living 2 miles or more from school.”*

As part of this effort, LPG would also work with District staff to provide available information to assist in the results of determining Elementary School Hazardous Walking Routes as prescribed in 1006.23 F.S. This issue will be discussed in greater detail in another document.

The School Board's adopted policy in Chapter 8.31(1) -- Auxiliary Services -- Student Transportation, adheres to the State Board of Education rules and the policy specifically relates to student eligibility for riding the bus, and reads as follows and as provided in Appendix 4: *(1) Any student who resides two (2) or more miles from his / her designated school by the most direct traveled route is eligible to ride the school bus to and from that school.*


The following materials should provide a detailed explanation of the methodology and process that LPG Mapping & Computer Services, Inc. utilized to automate the address selection procedure to quickly, effectively and accurately determine the disposition of all individual addresses and their relationship associated to whether or not they meet the Florida Department of Education criteria for FTE funding in accordance with the provisions of Rule 6A-3.001 F.A.C. as described on the previous page and in Appendix 1.

STEP BY STEP PROCESS OF THE PROCEDURE

Step 1: In April 2008, Todd Reynolds of the Growth Planning Department at the District sent a request to all elementary, middle and high school principals asking for the completion of a “School Access Table” along with an associated school map with aerial imagery that was to provide for the basis of establishing the pedestrian ingress/egress points to each school as required in the walking analysis (see form below and in Appendix 5). The aerial maps (see example for Astatula Elementary School in Appendix 6) with the school boundary was utilized for marking the actual location of each access area and corresponded these to an Access ID that would be utilized to relate the locations to the information on the table.

School Facility -- Location, Type and Hours of Access -- Form

Name of School: _____ Date: _____

Access ID (Depict on Map)	Hours of Use (Code)	Entrance Type	Description of Entrance
Examples			
A	1	Vehicle	Entrance to Parent Drop Off
B	3	Vehicle	Ingress/Egress to Sport Stadium
C	2	Pedestrian	Back Gate Entrance to School and Play Fields
Notes: Hours of Use -- 1 – Open During Normal School Operating Hours 2 – Open Only for Morning & Afternoon Access to School 3 – Open Only for Special Use (Maintenance, Deliveries, Sports, etc.) 4 – Other (Not described above)			
Pedestrian Entrances Depicted on Map were derived from the location of visible sidewalks (Please note ALL access points)			

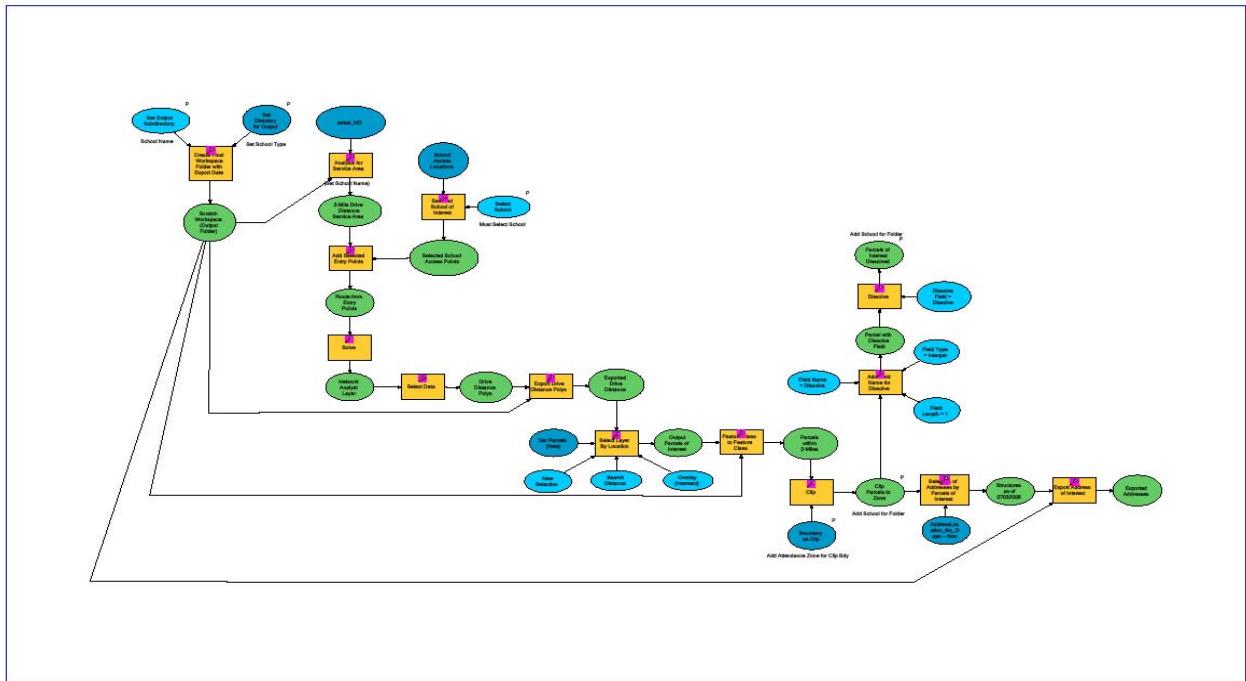
School Access Table

5/20/2008 11:27 AM

Step 2: From the tables and maps as provided by the respective schools, a GIS point layer file was created denoting each point as depicted on the map and attributed with the associated school name, entrance description, entrance use type and category, along with the specific hours of use along with other related details of interest.

Step 3: The Lake County GIS street centerline layer file from August 2008 was utilized to create a network routing GIS layer to be utilized to calculate the actual walking route distances from the pedestrian entrance points at each school. The ESRI Network Analyst Extension was utilized in ArcMap to perform the 2-mile drive distance analysis as part of this endeavor. An effort was made to review each route for other possible access routes from public trails or multi-modal access that would also quality for walking students. All individual routes were evaluated against the same analysis utilizing ESRI’s available nation-wide network dataset StreetMaps USA. The network route file was required to be updated several times during the modeling process to correct gaps in the network (node) connections from poor digitizing and snapping of nodes in the original street centerline file from Lake County GIS.

Step 4: Utilizing ESRI's ModelBuilder application tool, a series of tools from ArcTool Box were selected to create a consistent and organized process to generate the GIS layer files necessary to select the particular residential addresses that met the FDOE rule criteria. The model not only offered a way to test various variables early on in the process, but ultimately exposes all the tools, variables as model parameters; thus providing for a full documentation of the flow and process of the analysis that should prove helpful for FDOE audit personal when reviewing the methodology. (See the model diagram below and in Appendix 7; a detailed model report of the example run is included in Appendix 8)

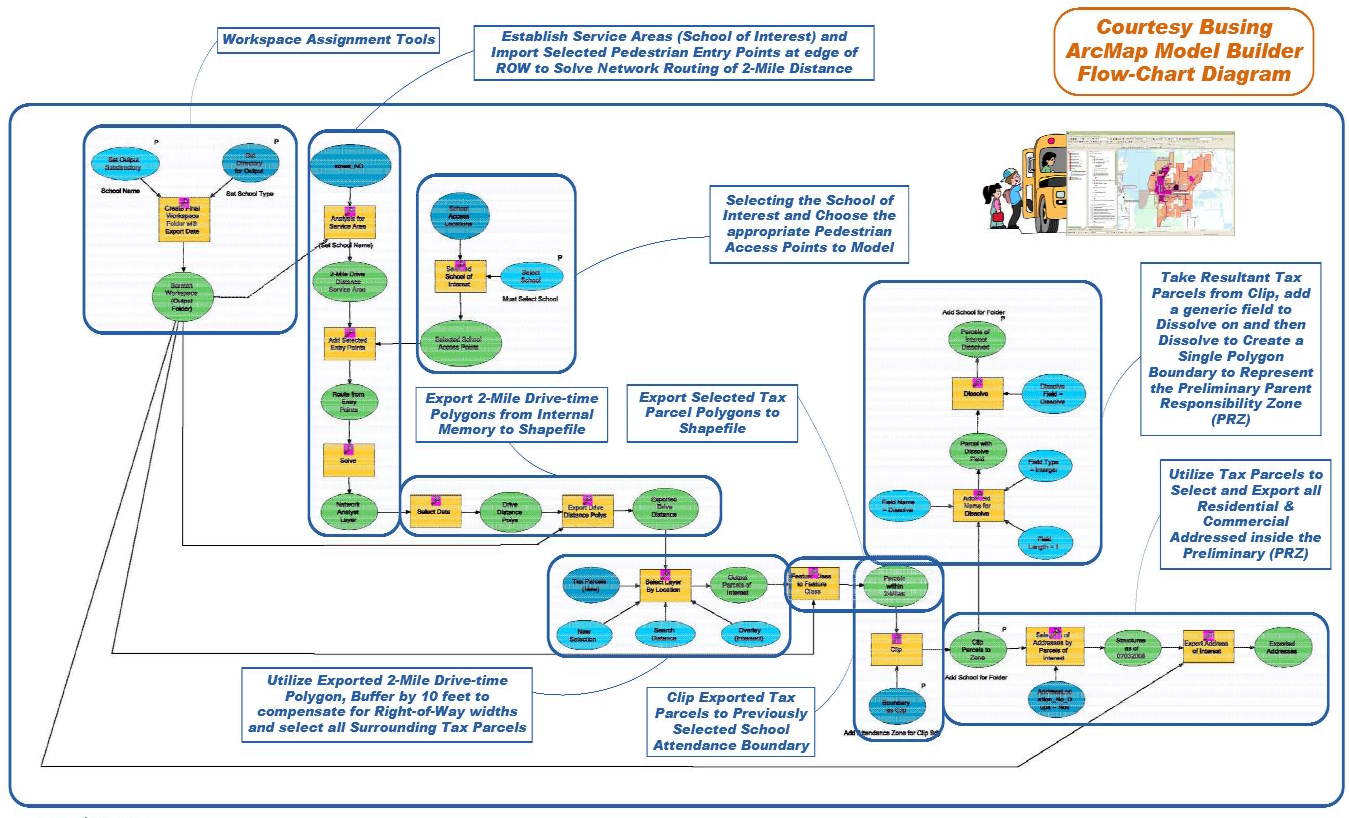


2-Mile Courtesy Busing Analysis – All Schools

Step 5: The latest GIS layer files that were necessary to complete the input elements into the model were obtained from the Lake County GIS FTP download site. The polygon Tax Parcel layer was current as of July 11, 2008 and the point Structures layer utilized for individual addresses were valid as of July 3, 2008.

Step 6: The model as depicted on the following page is broken down into nine (9) major components and is included in Appendix 9 for further review. The first sets of tools from ArcToolBox were incorporated to handle the scratch workspace assignments of the process. Four primary directories were established for Elementary, Middle, High and Special schools to organize and store the model results for each model run. Under each of these main directories, another directory was created for each respective school analyzed to store the results from the model output. The second element was the selection of all available pedestrian entry points at the school to be modeled to solve the respective route. The third group of tools established the service areas for the particular school of interest and ran the Network Analyst model to create the 2-mile drive-distance polygon layer. The fourth set building blocks exported the internal drive-distance layer from memory and into a polygon shapefile. The fifth collection of tools created a 10-foot buffer from the drive-distance

polygon layer to compensate for various right-of-way widths and assist in the selection of all intersected tax parcels in the process. The sixth cluster of tools just exported the resultant selected tax parcels to a polygon shapefile. The seventh tool set clipped the tax parcel polygons to the specific school attendance boundary, if the maximum extent of the designated attendance boundary happened to occur within the 2-mile distance. The eighth element dissolved on the resulting tax parcels to create a single record polygon boundary that would be the starting basis for the Parent Responsibility Zone (PRZ) boundary. The ninth and final cluster of tools from the ArcToolBox in the model were utilized to select all point structure addresses that fell within the 2-mile zone of influence and exported them into a point address layer.



Step 7: The resultant GIS polygon feature class from the network route analysis in the third component in the model (see Appendix 10) was created from each of the possible pedestrian routes and was buffered by a distance of ten (10) feet in order to ensure the capture of the adjacent (tax) parcels lying at the edge of the typical sixty six (66) foot right-of-way. A sensitivity analysis of many different distances were evaluated to determine the optimum distance of ten (10) feet to ensure the effective selection of tax parcels from the routing polygon feature class. Right-of-ways of greater than sixty six (66) feet in width were evaluated on an individual basis during the detailed inspection process.

Step 8: The ModelBuilder application was tested under various conditions and modifications were made to better automate the process and to focus the final results for minimal manual manipulation for individual address assessments. As indicated in **Step 3**, the model was run twice for each school utilizing the ESRI StreetMaps network dataset to check the model results against the newly created street centerline network of roads generated from the

original Lake County GIS layer file. As differences revealed themselves, the network nodes were inspected and corrected as necessary to complete the connection and allow for the proper flow of model down the roadway.

Step 9: In the fifth stage of the model, all selected polygons within the tax parcel layer that in any way intersected the aggregation of all two 2-mile pedestrian walking distances (layer created in **Step 7**) from each school entry point as determined by the Network Analyst results. These selected tax parcel features were exported into a temporary GIS polygon feature class as depicted in purple shading which can be seen in **Appendix 11**.

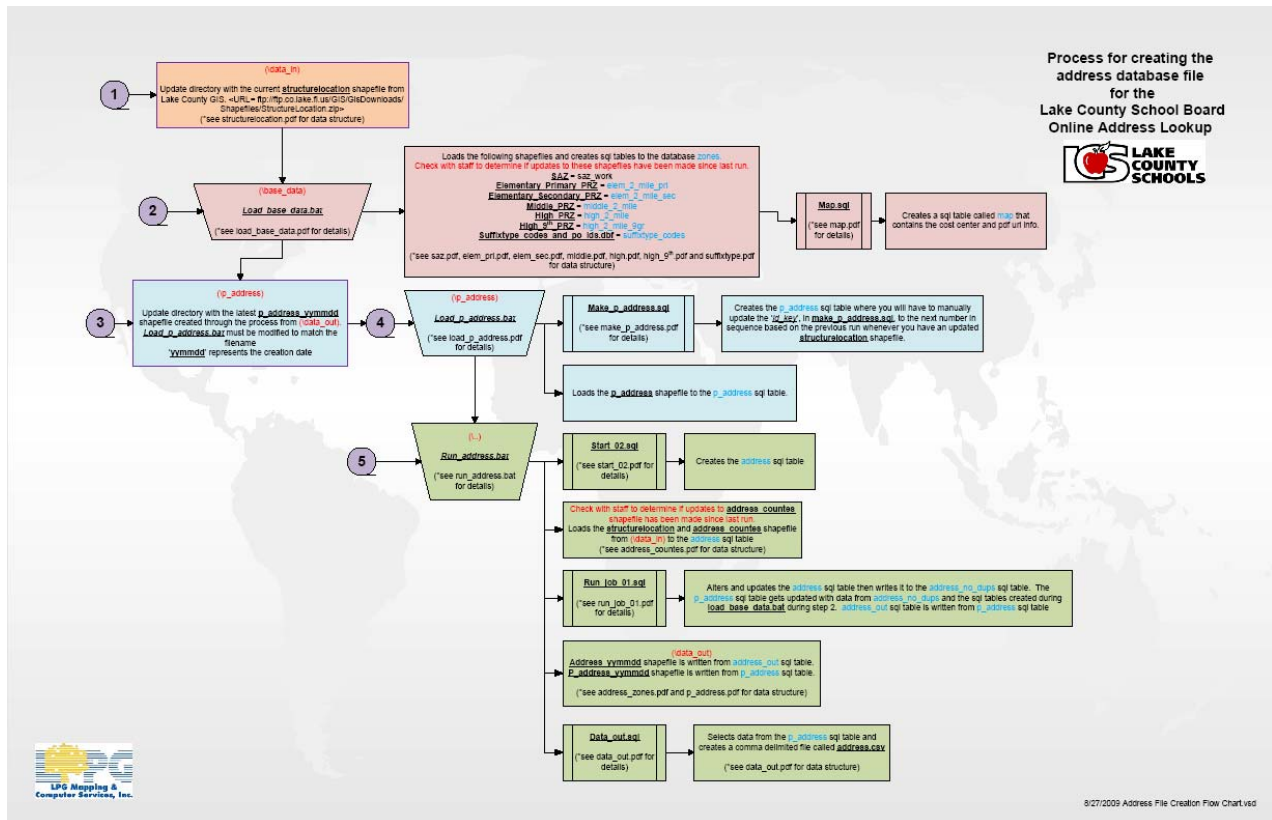
Step 10: In many cases throughout the District, primarily with the elementary schools, the locations of the school attendance boundaries actually reside within a 2-mile drive distance of each other, and thus don't apply outside their respective attendance boundary where this overlap occurs. Therefore, if tax parcels of interest that were captured extended beyond their attendance zone, the tax parcels were then clipped by the approved respective school attendance boundary creating the final zone of influence. In the last stage of the model, the corresponding residential and commercial addresses that are considered in the temporary courtesy busing zone were captured and exported to their own GIS layer file.

Step 11: Due to the nature of the tax parcel information, most areas considered as common elements such as road right-of-ways, lake bottom, waterways, and water retention areas were many times tied or strung together into large or long linear polygons. The resultant single polygon representing the proposed 2-mile FTE non-funding zone or PRZ's in some cases was then thoroughly inspected to evaluate parcel by parcel for any oddities that may have occurred during the automated selection process to ensure that all valid, vacant or occupied tax parcels will be included within the final selected 2-mile zone boundary. Road right-of-ways, waterways and lakes were split accordingly to offer the most logical connection between the two adjacent selected tax parcels. Variances in ownership names of gated communities, rental mobile home parks, apartment complexes and condominium complexes required special attention to ensure compliance with FDOE criteria. The final result of this modeling effort can be seen with the depicted large red dashed line outlining the limits of the polygon feature class in **Appendix 11**. The results of the manual inspections and cleanup can be seen in the differences between the purple tax parcel polygon boundaries and the final boundary. These anomalies that primarily exist are because of private dirt road access points that are not shown in the public road centerline dataset and mismatched like owner names that were not selected in the tax parcels combined ownership analysis.

Step 12: Upon the completion of the final set of individual school polygon layers for each school, a resultant polygon feature class representing each of the education sets of Elementary Primary, Elementary Secondary, Middle, Eustis 9th Grade Center, High and Special was created. The respective polygon layers representing each of the six educational sets were then coded with their respective financial cost center number, school name, educational type, zone class, and actual evaluation date.

Step 13: The latest available structurelocation structure address layer from Lake County GIS was obtained as of November 4th, 2008 contained a total of 180,696 records. This GIS layer file was used to extract all addresses that were not duplicates based on either a building number or unit number as in an apartment complex. The School District's AS400 student dataset does not have the availability to extract these particular fields and place them into the appropriate format for that level of detail in locating students. This information is unnecessary because no attendance boundary would split a single tax parcel that would exist under any of these particular circumstances. A set of scripts as highlighted in the following step was run to determine which records represented duplicates and 155,005 unique addresses were exported into a new point layer file.

Step 14: With the completion of **Step 12**, all the major components of the process have been generated which allow for the attribution of each specific address to be assigned the necessary 2-mile FTE information for the five (5) major categories by each respective boundary. Each address in Lake County and that portion in Marion County near Altoona inside the Transportation Agreement Zone can be matched against the student record and allocated by their respective school assignment for transportation reimbursement for FDOE. A series of SQL & BAT files are run in sequence to merge the necessary attendance boundary assignments along with the 2-mile walk distance information to the individual addresses as outline in the previous step (**Step 13**). A flow chart of this process is depicted below (also see Appendix 12), along with all the related backup information that highlight the details of the input and output files of the process are included in Appendix 13. Due to the complexity of this final step of allocating all the previous information in to a county-wide address file, another document is being constructed that will provide a more complete technical analysis of these processes for reference.



Step 15: The final results of the last component of the SQL and BAT files as described in the previous **Step 14**, and highlighted in **Appendices 12 and 13** is a **address.csv** file (see example below). This resultant comma delimited file is provided to the District's ETS Department to match a unique address identifier code **ID KEY** or **GEOCODE**, thus supplying all the necessary assignments including the 2-mile FTE assignments to each student based on their residential address.

```

STREETNUMB,PREFIXDIRE,STREETNAME,SUFFIXTYPE,CITY,ZIPCODE,COUNTY,SAZ,HIGH_CNTR,MIDDLE_CNT,ELEM_CNTR,ELEM_SEC_C,INTERLOCAL,POINTX,POINTY,PRZ_E,P
RZ_ES,PRZ_M,PRZ_H,PRZ_H9,M2FTE_E,M2FTE_ES,M2FTE_M,M2FTE_H,M2FTE_H9,ELEM_TRAN,MIDD_TRAN,HIGH_TRAN,ID_KEY
9851,SE,167TH,PL,SUMMERFIELD,34491,MARION,,,,,339697,1689901,N,N,N,N,N,N,N,N,N,N,,9900000004
24203,,SANDLEWOOD,DR,WILDWOOD,34785,SUMTER,,,,,342207,1629399,N,N,N,N,N,N,N,N,N,N,,9900000006
703,,WILSON,ST,WILDWOOD,34785,SUMTER,,,,,322455,1650791,N,N,N,N,N,N,N,N,N,N,,9900000007
9318,SE,161ST,ST,SUMMERFIELD,34491,MARION,,,,,337762,1693253,N,N,N,N,N,N,N,N,N,N,,9900000008
17373,SE,130TH,AVE,WEIRSDALE,32195,MARION,,,,,356354,1686256,N,N,N,N,N,N,N,N,N,N,,9900000010
1870,,CR 245 SOUTH,,OXFORD,34484,SUMTER,,,,,317075,1675399,N,N,N,N,N,N,N,N,N,N,,9900000011
2777,,CR 202,,OXFORD,34484,SUMTER,,,,,317075,1675399,N,N,N,N,N,N,N,N,N,N,,9900000011
5445,,ADMIRAL,WAY,OXFORD,34484,SUMTER,,,,,317075,1675399,N,N,N,N,N,N,N,N,N,N,,9900000011
11337,,CR 229,,OXFORD,34484,SUMTER,,,,,317075,1675399,N,N,N,N,N,N,N,N,N,N,,9900000011
15232,SW,39TH,CIR,OCALA,34473,MARION,,,,,278047,1698314,N,N,N,N,N,N,N,N,N,N,,9900000012
2491,,LAUREL BLOSSOM,CIR,OCOE,34761,ORANGE,,,,,485249,1543216,N,N,N,N,N,N,N,N,N,N,,9900000013

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APPENDIX 1

Rule 6A03.001 Florida Administrative Code (FAC)

6A-3.001 Basic Principles for Transportation of Students.

(1) Where it is practicable to provide improved transportation service and school facilities for students from an area in adjoining districts, district lines shall not interfere with the designation of a school attendance area composed of areas of two (2) or more districts. It shall be the duty of school boards and superintendents of the districts involved to develop a plan which will issue the children of the area adequate school advantages. Students shall not be transported at public expense across district lines unless an annual agreement exists between the respective school boards. This agreement shall outline the responsibility of each district for providing school facilities, including transportation, and specify which district shall have exclusive responsibility for providing and operating the equipment. Unless the agreement shall stipulate otherwise, the rules and regulations of the district in which the bus is traveling shall be observed.

(2) All school bus routes shall be so planned and adjusted to the capacities of available equipment and school buses should be so chosen and assigned to routes and attendance areas that insofar as practicable the full capacity of each bus will be utilized, without standees, to serve students whose homes are beyond reasonable walking distance of the assigned public school center.

(3) A reasonable walking distance for any student who is not otherwise eligible for transportation pursuant to Section 1011.68, Florida Statutes, is any distance not more than two (2) miles between the home and school or one and one-half (1 1/2) miles between the home and the assigned bus stop. Such distance shall be measured from the closest pedestrian entry point of the property where the student resides to the closest pedestrian entry point of the assigned school building or to the assigned bus stop. The pedestrian entry point of the residence shall be where private property meets the public right-of-way. The district shall determine the shortest pedestrian route whether or not it is accessible to motor vehicle traffic.

Specific Authority 1001.02, 1001.42(8), 1006.21, 1006.22, 1011.68 FS. Law Implemented 1001.42(8), 1006.22, 1011.68 FS. History—Amended 3-26-66, 9-17-72, Revised 7-20-74, Repromulgated 12-5-74, Formerly 6A-3.01, Amended 3-12-86, 11-15-94.

APPENDIX 2

Chapter 1006.21 Florida Statutes (FS)

Select Year:

The 2009 Florida Statutes

[Title XLVIII](#)
K-20 EDUCATION CODE

[Chapter 1006](#)
SUPPORT FOR LEARNING

[View Entire Chapter](#)

1006.21 Duties of district school superintendent and district school board regarding transportation.--

(1) The district school superintendent shall ascertain which students should be transported to school or to school activities, determine the most effective arrangement of transportation routes to accommodate these students; recommend such routing to the district school board; recommend plans and procedures for providing facilities for the economical and safe transportation of students; recommend such rules as may be necessary and see that all rules relating to the transportation of students approved by the district school board, as well as rules of the State Board of Education, are properly carried into effect, as prescribed in this chapter.

(2) After considering recommendations of the district school superintendent, the district school board shall make provision for the transportation of students to the public schools or school activities they are required or expected to attend; authorize transportation routes arranged efficiently and economically; provide the necessary transportation facilities, and, when authorized under rules of the State Board of Education and if more economical to do so, provide limited subsistence in lieu thereof; and adopt the necessary rules to ensure safety, economy, and efficiency in the operation of all buses, as prescribed in this chapter.

(3) District school boards, after considering recommendations of the district school superintendent:

(a) Shall provide transportation for each student in prekindergarten disability programs and in kindergarten through grade 12 membership in a public school when, and only when, transportation is necessary to provide adequate educational facilities and opportunities which otherwise would not be available and to transport students whose homes are more than a reasonable walking distance, as defined by rules of the State Board of Education, from the nearest appropriate school.

(b) Shall provide transportation for public elementary school students in membership whose grade level does not exceed grade 6, and may provide transportation for public school students in membership in grades 7 through 12, if such students are subjected to hazardous walking conditions as provided in s. [1006.23](#) while en route to or from school.

(c) May provide transportation for public school migrant, exceptional, nursery, and other public school students in membership below kindergarten; kindergarten through grade 12 students in membership in a public school; and adult students in membership in adult career, basic, and high school graduation

programs in a public school when, and only when, transportation is necessary to provide adequate educational facilities and opportunities which otherwise would not be available.

(d) May provide transportation for the transportation disadvantaged as defined in s. [427.011](#) and for other school-age children as provided for in s. [1006.261](#).

(e) Shall provide necessary transportation to pregnant students or student parents, and the children of those students, when the district school board operates a teenage parent program pursuant to s. [1003.54](#).

(f) May provide transportation for other persons to events or activities in which the district school board or school has agreed to participate or cosponsor. The district school board shall adopt a policy to address liability for trips pursuant to this paragraph.

(g) May provide transportation for welfare transition program participants as defined in s. [414.0252](#).

(4) In each case in which transportation of students is impracticable in the opinion of the district school board, the district school board may take steps for making available educational facilities as are authorized by law or rule of the State Board of Education and as, in the opinion of the district school board, are practical.

(5) Contiguous school districts shall make provisions for reciprocal policies and agreements for contracts for school bus transportation services, inspections, and screening requirements for public schools and public charter schools.

History.--s. 295, ch. 2002-387; s. 47, ch. 2004-41; s. 102, ch. 2004-357; s. 17, ch. 2009-59.

APPENDIX 3

Chapter 1011.86 Florida Statutes (FS)

Select Year:

The 2009 Florida Statutes

[Title XLVIII](#)
K-20 EDUCATION CODE

[Chapter 1011](#)
PLANNING AND BUDGETING

[View Entire Chapter](#)

1011.68 Funds for student transportation.--The annual allocation to each district for transportation to public school programs, including charter schools as provided in s. [1002.33](#)(17)(b), of students in membership in kindergarten through grade 12 and in migrant and exceptional student programs below kindergarten shall be determined as follows:

(1) Subject to the rules of the State Board of Education, each district shall determine the membership of students who are transported:

(a) By reason of living 2 miles or more from school.

(b) By reason of being students with disabilities or enrolled in a teenage parent program, regardless of distance to school.

(c) By reason of being in a state prekindergarten program, regardless of distance from school.

(d) By reason of being career, dual enrollment, or students with disabilities transported from one school center to another to participate in an instructional program or service; or students with disabilities, transported from one designation to another in the state, provided one designation is a school center and provided the student's individual educational plan (IEP) identifies the need for the instructional program or service and transportation to be provided by the school district. A "school center" is defined as a public school center, community college, state university, or other facility rented, leased, or owned and operated by the school district or another public agency. A "dual enrollment student" is defined as a public school student in membership in both a public secondary school program and a community college or a state university program under a written agreement to partially fulfill ss. [1003.435](#) and [1007.23](#) and earning full-time equivalent membership under s. [1011.62](#)(1)(i).

(e) With respect to elementary school students whose grade level does not exceed grade 6, by reason of being subjected to hazardous walking conditions en route to or from school as provided in s. [1006.23](#). Such rules shall, when appropriate, provide for the determination of membership under this paragraph for less than 1 year to accommodate the needs of students who require transportation only until such hazardous conditions are corrected.

(f) By reason of being a pregnant student or student parent, and the child of a student parent as provided in s. [1003.54](#), regardless of distance from school.

(2) The allocation for each district shall be calculated annually in accordance with the following formula:

$T = B + EX$. The elements of this formula are defined as follows: T is the total dollar allocation for transportation. B is the base transportation dollar allocation prorated by an adjusted student membership count. The adjusted membership count shall be derived from a multiplicative index function in which the base student membership is adjusted by multiplying it by index numbers that individually account for the impact of the price level index, average bus occupancy, and the extent of rural population in the district. EX is the base transportation dollar allocation for disabled students prorated by an adjusted disabled student membership count. The base transportation dollar allocation for disabled students is the total state base disabled student membership count weighted for increased costs associated with transporting disabled students and multiplying it by the prior year's average per student cost for transportation. The adjusted disabled student membership count shall be derived from a multiplicative index function in which the weighted base disabled student membership is adjusted by multiplying it by index numbers that individually account for the impact of the price level index, average bus occupancy, and the extent of rural population in the district. Each adjustment factor shall be designed to affect the base allocation by no more or less than 10 percent.

(3) The total allocation to each district for transportation of students shall be the sum of the amounts determined in subsection (2). If the funds appropriated for the purpose of implementing this section are not sufficient to pay the base transportation allocation and the base transportation allocation for disabled students, the Department of Education shall prorate the available funds on a percentage basis. If the funds appropriated for the purpose of implementing this section exceed the sum of the base transportation allocation and the base transportation allocation for disabled students, the base transportation allocation for disabled students shall be limited to the amount calculated in subsection (2), and the remaining balance shall be added to the base transportation allocation.

(4) No district shall use funds to purchase transportation equipment and supplies at prices which exceed those determined by the department to be the lowest which can be obtained, as prescribed in s. [1006.27\(1\)](#).

(5) Funds allocated or apportioned for the payment of student transportation services may be used to pay for transportation of students to and from school on local general purpose transportation systems. Student transportation funds may also be used to pay for transportation of students to and from school in private passenger cars and boats when the transportation is for isolated students, or students with disabilities as defined by rule. Subject to the rules of the State Board of Education, each school district shall determine and report the number of assigned students using general purpose transportation private passenger cars and boats. The allocation per student must be equal to the allocation per student riding a school bus.

(6) Notwithstanding other provisions of this section, in no case shall any student or students be counted for transportation funding more than once per day. This provision includes counting students for funding pursuant to trips in school buses, passenger cars, or boats or general purpose transportation.

History.--s. 660, ch. 2002-387; s. 3, ch. 2003-393; s. 130, ch. 2004-357; s. 30, ch. 2009-59.

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APPENDIX 4

Lake County School Board Policy – Chapter 8.00 Auxiliary Services – Student Transportation

CHAPTER 8.00 - AUXILIARY SERVICES

8.31*

STUDENT TRANSPORTATION

POLICY:

Each student who is transported shall be entitled to free transportation provided he / she abides by the rules of safety and behavior necessary to operate the District's transportation system. Serious infraction of these rules may result in the loss of the student's privilege. The student's parent(s) or legal guardian shall be responsible for making sure the student abides by the rules or for providing the student's transportation. Suspension from a bus shall not affect the attendance laws and rules.

- (1) Any student who resides two (2) or more miles from his / her designated school by the most direct traveled route is eligible to ride the school bus to and from that school. These students shall be reported for funding purposes. Under the following conditions, students who reside within two (2) miles of the designated school may be eligible to ride the school bus.
 - (a) Special authorization is granted by the School Board.
 - (b) An exceptional student not requiring special care may ride a school bus regardless of distance from home to school upon furnishing a statement from the Supervisor of Exceptional Students certifying that the student is handicapped and is unable to walk to school. The statement shall be accompanied by the Individual Education Plan (IEP) of the student showing the transportation need.
- (2) A student who is eligible for transportation and resides beyond the accessibility of a school bus may be provided transportation by payment from the School Board to the parent(s) or legal guardian for use of a private automobile or other conveyance for this purpose as provided in the School Board Rule entitled "Transporting Students in Private Vehicles".
- (3) The School Board may cooperate with other school districts to provide transportation for students.
 - (a) When it is practical to extend a school bus route to serve any territory located in another school district, the School Board of Lake County shall enter into an agreement with the School Board of the other district to provide transportation services to students residing in the adjacent school district. Any such agreement shall be

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recorded in the official School Board minutes of each school board. The agreement shall state in detail the responsibility of each school board for operating the school bus and maintaining a daily schedule.

- (b) Whenever a school bus crosses a school district line, all rules of the Lake County School Board shall apply to students transported by the said school board unless otherwise stated in the agreement between the school boards.
- (4) Only a student who is regularly enrolled as a transported student and whose name appears on the bus driver's enrollment list for that bus shall be permitted to ride such bus while it is being operated on a regular school bus route except upon the written request of the parent(s) or legal guardian of a student and with the written approval of the principal. Such approval may be granted only when the student's welfare is involved due to an emergency condition in the home. When an emergency condition exceeds five (5) school days, the Superintendent's designee's approval shall be required. Approval shall not be allowed for:
- (a) Student visitation, unless duly authorized; and,
 - (b) A student to obtain transportation to his / her regular place of employment.
- (5) No person shall be eligible for transportation on a field trip or extracurricular school trip unless he / she is authorized by the principal or designee.
- (6) Maximum regard for the safety of students and due consideration for the protection of health of all students transported shall be primary requirements in the routing of buses, establishing student stops, appointing drivers, and in providing and operating transportation equipment.
- (7) A student who arrives early or remains late because of transportation service shall be under school supervision at all times and shall, if practicable, have a planned schedule of activities. The principal shall be responsible for providing such supervision.
- (8) Each route shall be planned and adjusted as nearly as possible to the bus capacity. Travel each morning and afternoon shall be considered in planning and establishing bus routes and shall not exceed fifty (50)

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minutes for elementary students and sixty (60) minutes for secondary students when practicable.

- (9) Periodically student transportation routes and student walking conditions shall be reviewed to determine if hazardous conditions exist. Appropriate requests for designation of hazardous conditions shall be provided as required by state law or State Board of Education rules.

STATUTORY AUTHORITY:

1001.42, F.S.

LAWS IMPLEMENTED:

**1001.43; 1006.21; 1006.21(3);
1006.23; 1011.68, F.S.**

STATE BOARD OF EDUCATION RULE:

6A-3.001; 6A-3.017

HISTORY:

**ADOPTED:
REVISION DATE(S): 7/26/04
FORMERLY: EE (PART 2)
BOARD REVIEW: 6/14/04**

APPENDIX 5

School Entrance Location and Information Access Form

School Facility -- Location, Type and Hours of Access -- Form

Name of School: _____ **Date:** _____

Access ID (Depict on Map)	Hours of Use (Code)	Entrance Type	Description of Entrance

Examples

A	1	Vehicle	Entrance to Parent Drop Off
B	3	Vehicle	Ingress/Egress to Sport Stadium
C	2	Pedestrian	Back Gate Entrance to School and Play Fields

Notes: Hours of Use -- 1 -- Open During Normal School Operating Hours
 2 -- Open Only for Morning & Afternoon Access to School
 3 -- Open Only for Special Use (Maintenance, Deliveries, Sports, etc.)
 4 -- Other (Not described above)

Pedestrian Entrances Depicted on Map were derived from the location of visible sidewalks (Please note ALL access points)



APPENDIX 6

**Example of School Entrance Map with Access Points
For Astatula Elementary School**

**Astatula Elementary School
School Entrance Locations**

Astatula Elementary School

FLORIDA AV

CR 48

STAGHORN CT

RED CEDAR WY

ROYAL FERN WY

ALAMANDA DR

ROSERUSH CT

Legend

Entrance Type

 Pedestrian

 Vehicle

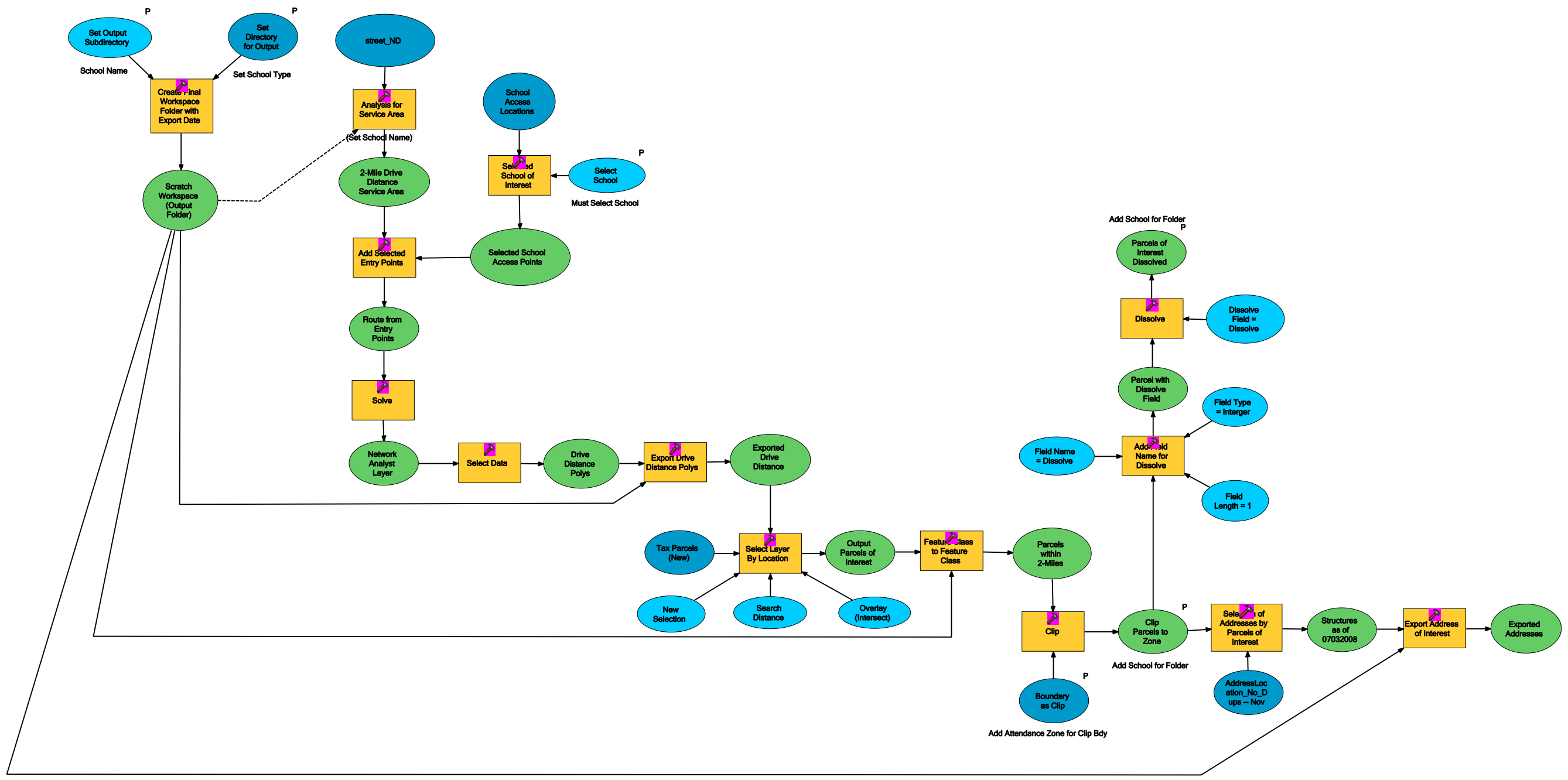
 School District Facility Boundaries

 Streets



APPENDIX 7

ESRI ArcMap Model Builder Flow Chart for 2-Mile Courtesy Busing Analysis



APPENDIX 8

**ESRI ArcMap Model Builder Report
for 2-Mile Courtesy Busing Analysis**

2-Mile Walking Distance ESRI Model Builder Model for Selecting Address of Interest by School

Model Report

[Expand/Collapse All](#)

Generated on: Mon Sep 14 14:09:16 2009

Variables

AddressLocation_No_Dups -- Nov 4th

*Data Type:*Feature Layer

*Value:*AddressLocation_No_Dups -- Nov 4th

Tax Parcels (New)

*Data Type:*Feature Layer

*Value:*Tax_Parcels_07112008

Overlay (Intersect)

*Data Type:*String

*Value:*INTERSECT

street_ND

*Data Type:*Network Dataset Layer

*Value:*street_ND

Set Directory for Output

*Data Type:*Folder

*Value:*D:\LakeCountySchoolDistrict\Middle

Set Output Subdirectory

*Data Type:*String

*Value:*MascotteUpdated

Scratch Workspace (Output Folder)

*Data Type:*Folder

*Value:*D:\LakeCountySchoolDistrict\Middle\MascotteUpdated

2-Mile Drive Distance Service Area

*Data Type:*Network Analyst Layer

*Value:*MascotteUpdated

School Access Locations

*Data Type:*Table View

*Value:*School_Access_Points

Select School

*Data Type:*SQL Expression

Value:("Ent_Type" = 'P' OR "Ent_Type" = 'PV') AND "SCH_NAME" = 'Mascotte Middle School (Temporary)'

Selected School Access Points

2-Mile Walking Distance ESRI Model Builder Model for Selecting Address of Interest by School

*Data Type:*Table View
*Value:*School_Access_Points

Route from Entry Points

*Data Type:*Network Analyst Layer
*Value:*MascotteUpdated

Network Analyst Layer

*Data Type:*Network Analyst Layer
*Value:*MascotteUpdated

Drive Distance Polys

*Data Type:*Data Element or Layer
*Value:*MascotteUpdated\Polygons

Exported Drive Distance Polys

*Data Type:*Feature Class
*Value:*D:\LakeCountySchoolDistrict\Middle\MascotteUpdated\Drive_Distance_2_Miles.shp

Search Distance

*Data Type:*Linear unit
*Value:*10 Feet

New Selection

*Data Type:*String
*Value:*NEW_SELECTION

Output Parcels of Interest

*Data Type:*Feature Layer
*Value:*Tax_Parcels_07112008

Parcels within 2-Miles

*Data Type:*Feature Class
*Value:*D:\LakeCountySchoolDistrict\Middle\MascotteUpdated\Parcels_within_2Miles.shp

Boundary as Clip

*Data Type:*Feature Layer
*Value:*MIDDLE ATTENDANCE ZONES\Gray_Middle_School

Clip Parcels to Zone

*Data Type:*Feature Class
*Value:*D:\LakeCountySchoolDistrict\Middle\MascotteUpdated\Parcels_within_2Miles_Clip.shp

Structures as of 07032008

*Data Type:*Feature Layer
*Value:*AddressLocation_No_Dups -- Nov 4th

Exported Addresses

*Data Type:*Feature Class
*Value:*D:\LakeCountySchoolDistrict\Middle\MascotteUpdated\Structures_of_Interest.shp

2-Mile Walking Distance ESRI Model Builder Model for Selecting Address of Interest by School

Field Name = Dissolve

*Data Type:*String
*Value:*Dissolve

Field Type = Interger

*Data Type:*String
*Value:*SHORT

Field Length = 1

*Data Type:*Long
*Value:*1

Parcel with Dissolve Field

*Data Type:*Table View or Raster Layer
*Value:*D:\LakeCountySchoolDistrict\Middle\MascotteUpdated\Parcels_within_2Miles_Clip.shp

Dissolve Field = Dissolve

*Data Type:*Multiple Value
*Value:*Dissolve

Parcels of Interest Dissolved

*Data Type:*Feature Class
*Value:*D:\LakeCountySchoolDistrict\Middle\MascotteUpdated\ParcelsofInterest_Dissolve.shp

Processes

Create Final Workspace Folder with Export Date

*Tool Name:*Create Folder
*Tool Source:*C:\Program Files\ArcGIS\ArcToolbox\Toolboxes\Data Management Tools.tbx\Workspace\CreateFolder

Parameters:

<i>Name</i>	<i>Direction</i>	<i>Type</i>	<i>Data Type</i>	<i>Value</i>
Output Location	Input	Required	Folder	D:\LakeCountySchoolDistrict\Middle
Output Folder	Input	Required	String	MascotteUpdated
Output Folder	Output	Derived	Folder	D:\LakeCountySchoolDistrict\Middle\MascotteUpdated

Messages:

Output D:\LakeCountySchoolDistrict\Middle\MascotteUpdated already exists

Analysis for Service Area

*Tool Name:*Make Service Area Layer
*Tool Source:*C:\Program Files\ArcGIS\ArcToolbox\Toolboxes\Network Analyst Tools.tbx\Analysis\MakeServiceAreaLayer

Parameters:

<i>Name</i>	<i>Direction</i>	<i>Type</i>	<i>Data Type</i>	<i>Value</i>
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2-Mile Walking Distance ESRI Model Builder Model for Selecting Address of Interest by School

Input analysis network	Input	Required	Network Dataset Layer	street_ND
Output layer name	Input	Required	String	MascotteUpdated
Impedance attribute	Input	Required	String	Length
Travel from or to facility	Input	Optional	String	TRAVEL_FROM
Default break values	Input	Optional	String	10560
Polygon type	Input	Optional	String	DETAILED_POLYS
Merge polygons with similar ranges	Input	Optional	String	NO_MERGE
Polygon nest option	Input	Optional	String	RINGS
Line type	Input	Optional	String	NO_LINES
Overlap lines	Input	Optional	Boolean	true
Split lines when they cross a service area break	Input	Optional	Boolean	false
Exclude sources from polygon generation	Input	Optional	Multiple Value	
Accumulators	Input	Optional	Multiple Value	
U-turn policy	Input	Optional	String	ALLOW_DEAD_ENDS_ONLY
Restrictions	Input	Optional	Multiple Value	
Trim Polygons	Input	Optional	Boolean	true
Polygon trim	Input	Optional	Linear unit	66 Feet
Include network source fields in lines	Input	Optional	Boolean	false
Network Analyst Layer	Output	Derived	Network Analyst Layer	MascotteUpdated

Messages:

A layer with this name exists

Selected School of Interest

Tool Name:Select Layer By Attribute

Tool Source:C:\Program Files\ArcGIS\ArcToolbox\Toolboxes\Data Management Tools.tbx\Layers and Table Views\SelectLayerByAttribute

Parameters:

<i>Name</i>	<i>Direction</i>	<i>Type</i>	<i>Data Type</i>	<i>Value</i>
Layer Name or Table View	Input	Required	Table View	School_Access_Points
Selection type	Input	Optional	String	NEW_SELECTION
Expression	Input	Optional	SQL Expression	("Ent_Type" = 'P' OR "Ent_Type" = 'PV') AND "SCH_NAME" = 'Mascotte Middle School (Temporary)'
Output Layer Name	Output	Derived	Table View	School_Access_Points

Messages:

Add Selected Entry Points

2-Mile Walking Distance ESRI Model Builder Model for Selecting Address of Interest by School

Tool Name: Add Locations

Tool Source: C:\Program Files\ArcGIS\ArcToolbox\Toolboxes\Network Analyst Tools.tbx\Analysis\AddLocations

Parameters:

<i>Name</i>	<i>Direction</i>	<i>Type</i>	<i>Data Type</i>	<i>Value</i>
Input network analysis layer	Input	Required	Network Analyst Layer	MascotteUpdated
Sub layer	Input	Required	String	Facilities
Input locations	Input	Required	Table View	School_Access_Points
Field mappings	Input	Required	Network Analyst Class FieldMap	CurbApproach # 0;Attr_Length # 0
Search tolerance	Input	Required	Linear unit	500 Feet
Sort field	Input	Optional	Field	
Search criteria	Input	Optional	Value Table	street SHAPE;street_ND_Junctions NONE
Find closest among all classes	Input	Optional	Boolean	true
Append to existing locations	Input	Optional	Boolean	false
Snap to Network	Input	Optional	Boolean	false
Snap Offset	Input	Optional	Linear unit	5 Meters
Network Analyst Layer	Output	Derived	Network Analyst Layer	MascotteUpdated

Messages:

Solve

Tool Name: Solve

Tool Source: C:\Program Files\ArcGIS\ArcToolbox\Toolboxes\Network Analyst Tools.tbx\Analysis\Solve

Parameters:

<i>Name</i>	<i>Direction</i>	<i>Type</i>	<i>Data Type</i>	<i>Value</i>
Input network analysis layer	Input	Required	Network Analyst Layer	MascotteUpdated
Ignore invalid locations	Input	Optional	Boolean	true
Network Analyst Layer	Output	Derived	Network Analyst Layer	MascotteUpdated

Messages:

Select Data

Tool Name: Select Data

Tool Source: C:\Program Files\ArcGIS\ArcToolbox\Toolboxes\Data Management Tools.tbx\General>SelectData

Parameters:

<i>Name</i>	<i>Direction</i>	<i>Type</i>	<i>Data Type</i>	<i>Value</i>
Input data element	Input	Required	Data Element or Composite Layer	MascotteUpdated

2-Mile Walking Distance ESRI Model Builder Model for Selecting Address of Interest by School

Child Data Element	Input	Optional	String	Polygons
Output data element	Output	Derived	Data Element or Layer	MascotteUpdated\Polygons

Messages:

Export Drive Distance Polys

Tool Name: Feature Class to Feature Class

Tool Source: C:\Program Files\ArcGIS\ArcToolbox\Toolboxes\Conversion Tools.tbx\To Geodatabase\FeatureClassToFeatureClass

Parameters:

<i>Name</i>	<i>Direction</i>	<i>Type</i>	<i>Data Type</i>	<i>Value</i>
Input Features	Input	Required	Feature Layer	MascotteUpdated\Polygons
Output Location	Input	Required	Workspace or Feature Dataset	D:\LakeCountySchoolDistrict\Middle\MascotteUpdated
Output Feature Class	Input	Required	String	Drive_Distance_2_Miles.shp
Expression	Input	Optional	SQL Expression	
Field Map	Input	Optional	Field Mappings	FacilityID FacilityID true true true 4 Long 0 0 ,First,#,SAPolygons,FacilityID,-1,-1;Name Name true true true 128 Text 0 0 ,First,#,SAPolygons,Name,-1,-1;FromBreak FromBreak true true true 8 Double 0 0 ,First,#,SAPolygons,FromBreak,-1,-1;ToBreak ToBreak true true true 8 Double 0 0 ,First,#,SAPolygons,ToBreak,-1,-1
Configuration Keyword	Input	Optional	String	
Output Feature Class	Output	Derived	Feature Class	D:\LakeCountySchoolDistrict\Middle\MascotteUpdated\Drive_Distance_2_Miles.shp

Messages:

Output D:\LakeCountySchoolDistrict\Middle\MascotteUpdated\Drive_Distance_2_Miles.shp already exists

Select Layer By Location

Tool Name: Select Layer By Location

Tool Source: C:\Program Files\ArcGIS\ArcToolbox\Toolboxes\Data Management Tools.tbx\Layers and Table Views\SelectLayerByLocation

Parameters:

<i>Name</i>	<i>Direction</i>	<i>Type</i>	<i>Data Type</i>	<i>Value</i>
Input Layer	Input	Required	Feature Layer	Tax_Parcels_07112008
Overlap Type	Input	Optional	String	INTERSECT
Select Layer	Input	Optional	Feature Layer	D:\LakeCountySchoolDistrict\Middle\MascotteUpdated\Drive_Distance_2_Miles.shp
Search Distance	Input	Optional	Linear unit	10 Feet
Selection type	Input	Optional	String	NEW_SELECTION
Output Layer Name	Output	Derived	Feature Layer	Tax_Parcels_07112008

2-Mile Walking Distance ESRI Model Builder Model for Selecting Address of Interest by School

Messages:

Feature Class to Feature Class

Tool Name:Feature Class to Feature Class

Tool Source:C:\Program Files\ArcGIS\ArcToolbox\Toolboxes\Conversion Tools.tbx\To Geodatabase\FeatureClassToFeatureClass

Parameters:

<i>Name</i>	<i>Direction</i>	<i>Type</i>	<i>Data Type</i>	<i>Value</i>
Input Features	Input	Required	Feature Layer	Tax_Parcels_07112008
Output Location	Input	Required	Workspace or Feature Dataset	D:\LakeCountySchoolDistrict\Middle\MascotteUpdated
Output Feature Class	Input	Required	String	Parcels_within_2Miles.shp
Expression	Input	Optional	SQL Expression	
Field Map	Input	Optional	Field Mappings	ALTKEY ALTKEY true false false 7 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\Tax_Parcels_07112008.shp,ALTKEY,-1,-1;PCN PCN true false false 18 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\Tax_Parcels_07112008.shp,PCN,-1,-1;SUBDIVISIO SUBDIVISIO true false false 100 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\Tax_Parcels_07112008.shp,SUBDIVISIO,-1,-1;OWNER OWNER true false false 100 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\Tax_Parcels_07112008.shp,OWNER,-1,-1;ADDRESS ADDRESS true false false 100 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\Tax_Parcels_07112008.shp,ADDRESS,-1,-1;CITY CITY true false false 50 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\Tax_Parcels_07112008.shp,CITY,-1,-1;STATE STATE true false false 15 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\Tax_Parcels_07112008.shp,STATE,-1,-1;ZIP ZIP true false false 10 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\Tax_Parcels_07112008.shp,ZIP,-1,-1
Configuration Keyword	Input	Optional	String	
Output Feature Class	Output	Derived	Feature Class	D:\LakeCountySchoolDistrict\Middle\MascotteUpdated\Parcels_within_2Miles.shp

Messages:

Output D:\LakeCountySchoolDistrict\Middle\MascotteUpdated\Parcels_within_2Miles.shp already exists

Clip

Tool Name:Clip

Tool Source:C:\Program Files\ArcGIS\ArcToolbox\Toolboxes\Analysis Tools.tbx\Extract\Clip

Parameters:

<i>Name</i>	<i>Direction</i>	<i>Type</i>	<i>Data Type</i>	<i>Value</i>
Input Features	Input	Required	Feature Layer	D:\LakeCountySchoolDistrict\Middle\MascotteUpdated\Parcels_within_2Miles.shp
Clip Features	Input	Required	Feature Layer	MIDDLE ATTENDANCE ZONES\Gray_Middle_School

2-Mile Walking Distance ESRI Model Builder Model for Selecting Address of Interest by School

XY Tolerance	Input	Optional	Linear unit	
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Messages:

Selection of Addresses by Parcels of Interest

Tool Name: Select Layer By Location

Tool Source: C:\Program Files\ArcGIS\ArcToolbox\Toolboxes\Data Management Tools.tbx\Layers and Table Views\SelectLayerByLocation

Parameters:

<i>Name</i>	<i>Direction</i>	<i>Type</i>	<i>Data Type</i>	<i>Value</i>
Input Layer	Input	Required	Feature Layer	AddressLocation_No_Dups -- Nov 4th
Overlap Type	Input	Optional	String	INTERSECT
Select Layer	Input	Optional	Feature Layer	D:\LakeCountySchoolDistrict\Middle\MascotteUpdated\Parcels_within_2Miles_Clip.shp
Search Distance	Input	Optional	Linear unit	
Selection type	Input	Optional	String	NEW_SELECTION
Output Layer Name	Output	Derived	Feature Layer	AddressLocation_No_Dups -- Nov 4th

Messages:

Export Address of Interest

Tool Name: Feature Class to Feature Class

Tool Source: C:\Program Files\ArcGIS\ArcToolbox\Toolboxes\Conversion Tools.tbx\To Geodatabase\FeatureClassToFeatureClass

Parameters:

<i>Name</i>	<i>Direction</i>	<i>Type</i>	<i>Data Type</i>	<i>Value</i>
Input Features	Input	Required	Feature Layer	AddressLocation_No_Dups -- Nov 4th
Output Location	Input	Required	Workspace or Feature Dataset	D:\LakeCountySchoolDistrict\Middle\MascotteUpdated
Output Feature Class	Input	Required	String	Structures_of_Interest.shp
Expression	Input	Optional	SQL Expression	
Field Map	Input	Optional	Field Mappings	STREETNUMB STREETNUMB true false false 10 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\AddressLocation_No_Dups.shp,STREETNUMB,-1,-1;PREFIXDIRE PREFIXDIRE true false false 2 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\AddressLocation_No_Dups.shp,PREFIXDIRE,-1,-1;PREFIXTYPE PREFIXTYPE true false false 2 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\AddressLocation_No_Dups.shp,PREFIXTYPE,-1,-1;STREETNAME STREETNAME true false false 40 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\AddressLocation_No_Dups.shp,STREETNAME,-1,-1;SUFFIXTYPE SUFFIXTYPE true false false 6 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\AddressLocation_No_Dups.shp,SUFFIXTYPE,-1,-1;SUFFIXDIRE SUFFIXDIRE true false false 2 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\AddressLocation_No_Dups.shp,SUFFIXDIRE,-1,-1;BUILDING BUILDING true false false 4 Text 0 0

2-Mile Walking Distance ESRI Model Builder Model for Selecting Address of Interest by School

				,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\AddressLocation_No_Dups.shp,BUILDING,-1,-1;UNITTYPE UNITTYPE true false false 10 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\AddressLocation_No_Dups.shp,UNITTYPE,-1,-1;UNITNUMBER UNITNUMBER true false false 6 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\AddressLocation_No_Dups.shp,UNITNUMBER,-1,-1;CITY CITY true false false 30 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\AddressLocation_No_Dups.shp,CITY,-1,-1;ZIPCODE ZIPCODE true false false 10 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\AddressLocation_No_Dups.shp,ZIPCODE,-1,-1;PLACENAME PLACENAME true false false 60 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\AddressLocation_No_Dups.shp,PLACENAME,-1,-1;HASSTRUCTU HASSTRUCTU true false false 1 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\AddressLocation_No_Dups.shp,HASSTRUCTU,-1,-1;CONUMBER CONUMBER true false false 10 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\AddressLocation_No_Dups.shp,CONUMBER,-1,-1;CODATE CODATE true true false 8 Date 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\AddressLocation_No_Dups.shp,CODATE,-1,-1;PREALTKEY PREALTKEY true false false 7 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\AddressLocation_No_Dups.shp,PREALTKEY,-1,-1;COMMENTS COMMENTS true false false 254 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\AddressLocation_No_Dups.shp,COMMENTS,-1,-1;STRUCTUREU STRUCTUREU true false false 1 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\AddressLocation_No_Dups.shp,STRUCTUREU,-1,- 1;ADDRESS ADDRESS true false false 32 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\AddressLocation_No_Dups.shp,ADDRESS,-1,- 1;FULL_ADDRE FULL_ADDRE true false false 58 Text 0 0 ,First,#,D:\LakeCountySchoolDistrict\GIS_Layers\AddressLocation_No_Dups.shp,FULL_ADDRE,-1,-1
Configuration Keyword	Input	Optional	String	
Output Feature Class	Output	Derived	Feature Class	D:\LakeCountySchoolDistrict\Middle\MascotteUpdated\Structures_of_Interest.shp

Messages:

Output D:\LakeCountySchoolDistrict\Middle\MascotteUpdated\Structures_of_Interest.shp already exists

Add Field Name for Dissolve

Tool Name: Add Field

Tool Source: C:\Program Files\ArcGIS\ArcToolbox\Toolboxes\Data Management Tools.tbx\Fields\AddField

Parameters:

<i>Name</i>	<i>Direction</i>	<i>Type</i>	<i>Data Type</i>	<i>Value</i>
Input Table	Input	Required	Table View or Raster Layer	D:\LakeCountySchoolDistrict\Middle\MascotteUpdated\Parcels_within_2Miles_Clip.shp
Field Name	Input	Required	String	Dissolve
Field Type	Input	Required	String	SHORT
Field Precision	Input	Optional	Long	1
Field Scale	Input	Optional	Long	
Field Length	Input	Optional	Long	1
Field Alias	Input	Optional	String	
Field IsNullable	Input	Optional	Boolean	false
Field IsRequired	Input	Optional	Boolean	false
Field Domain	Input	Optional	String	
Output Feature Class	Output	Derived	Table View or Raster Layer	D:\LakeCountySchoolDistrict\Middle\MascotteUpdated\Parcels_within_2Miles_Clip.shp

2-Mile Walking Distance ESRI Model Builder Model for Selecting Address of Interest by School

Messages:

Dissolve

Tool Name: Dissolve

Tool Source: C:\Program Files\ArcGIS\ArcToolbox\Toolboxes\Data Management Tools.tbx\Generalization\Dissolve

Parameters:

<i>Name</i>	<i>Direction</i>	<i>Type</i>	<i>Data Type</i>	<i>Value</i>
Input Features	Input	Required	Feature Layer	D:\LakeCountySchoolDistrict\Middle\MascotteUpdated\Parcels_within_2Miles_Clip.shp
Output Feature Class	Output	Required	Feature Class	D:\LakeCountySchoolDistrict\Middle\MascotteUpdated\ParcelsofInterest_Dissolve.shp
Dissolve_Field(s)	Input	Optional	Multiple Value	Dissolve
Statistics Field(s)	Input	Optional	Value Table	
Create multipart features	Input	Optional	Boolean	true

Messages:

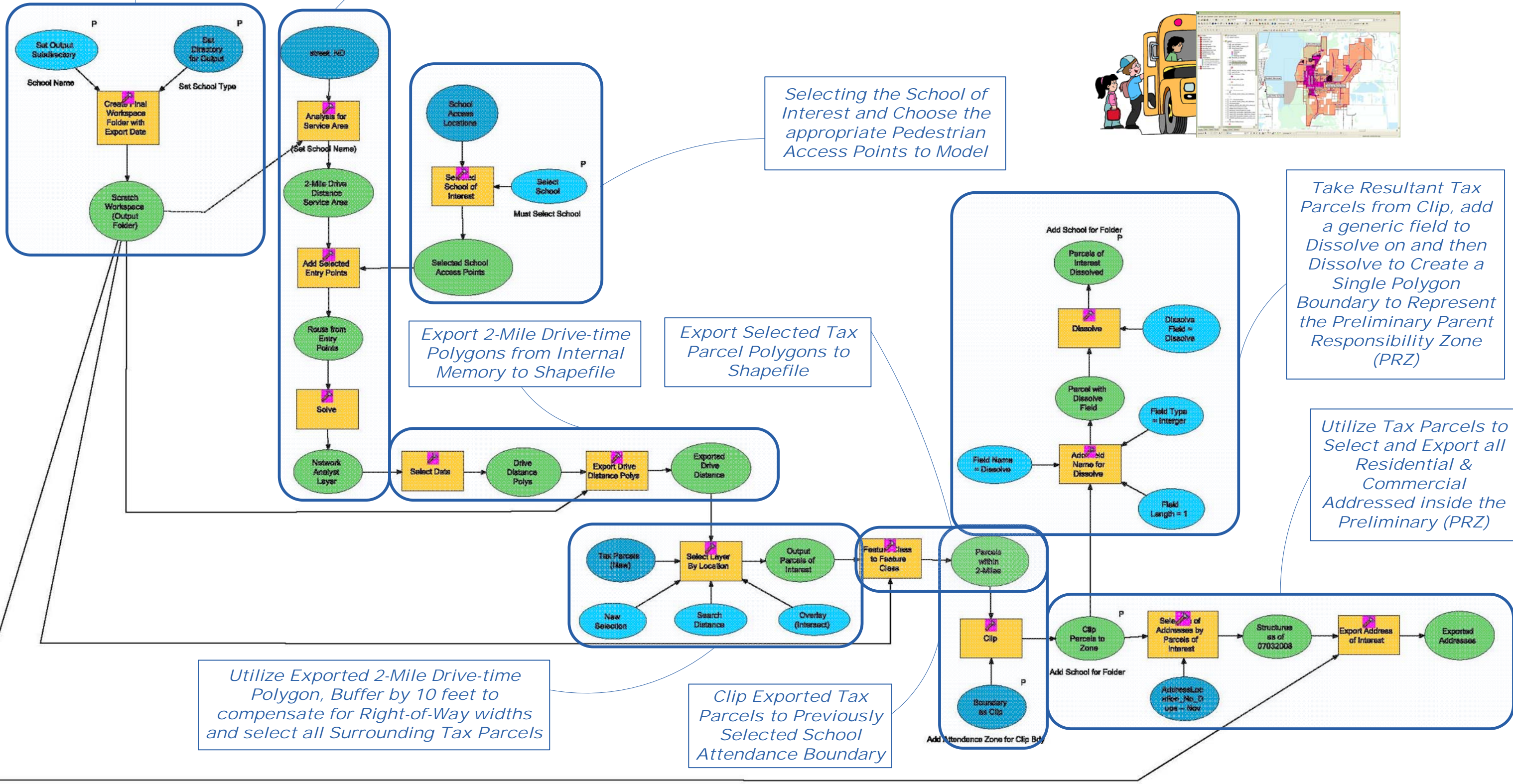
Output Feature Class: Dataset D:\LakeCountySchoolDistrict\Middle\MascotteUpdated\ParcelsofInterest_Dissolve.shp already exists

APPENDIX 9

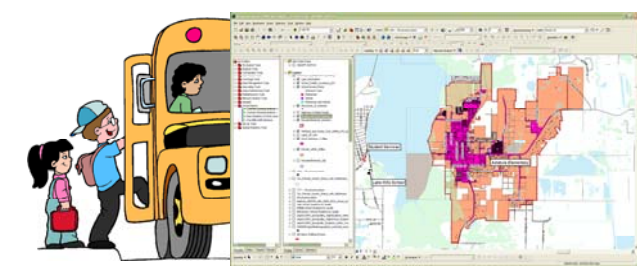
ESRI ArcMap Model Builder Flow Chart with Component Descriptions for 2-Mile Courtesy Busing Analysis

Workspace Assignment Tools

Establish Service Areas (School of Interest) and Import Selected Pedestrian Entry Points at edge of ROW to Solve Network Routing of 2-Mile Distance



Selecting the School of Interest and Choose the appropriate Pedestrian Access Points to Model



Export 2-Mile Drive-time Polygons from Internal Memory to Shapefile

Export Selected Tax Parcel Polygons to Shapefile

Take Resultant Tax Parcels from Clip, add a generic field to Dissolve on and then Dissolve to Create a Single Polygon Boundary to Represent the Preliminary Parent Responsibility Zone (PRZ)

Utilize Tax Parcels to Select and Export all Residential & Commercial Addressed inside the Preliminary (PRZ)

Utilize Exported 2-Mile Drive-time Polygon, Buffer by 10 feet to compensate for Right-of-Way widths and select all Surrounding Tax Parcels

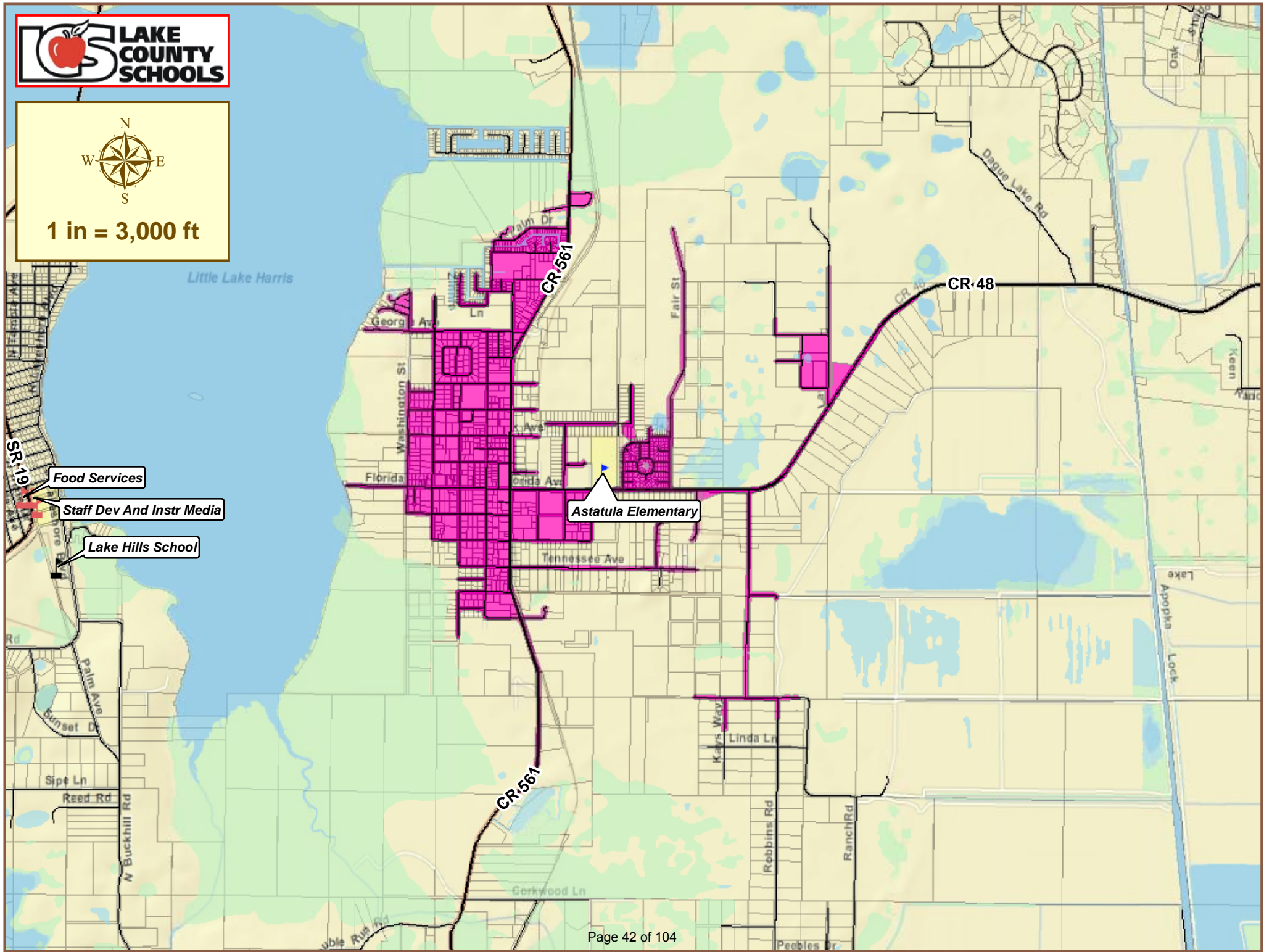
Clip Exported Tax Parcels to Previously Selected School Attendance Boundary

APPENDIX 10

2-Mile Drive-Drive Distance Map from ESRI ArcMap Network Analyst



1 in = 3,000 ft

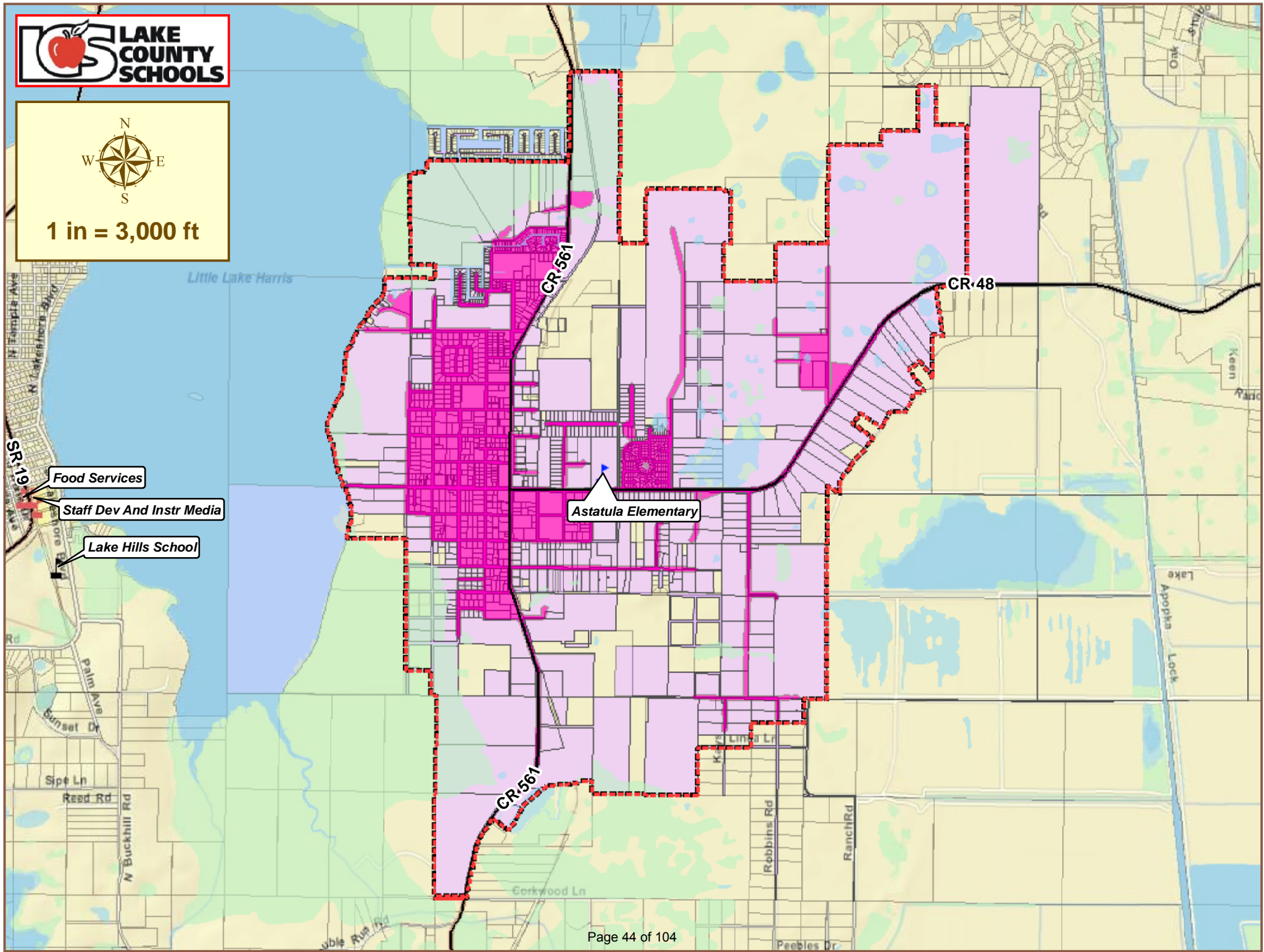


APPENDIX 11

**2-Mile Drive-Drive Distance Map from ESRI ArcMap Network Analyst
with Tax Parcel Capture and Final 2-Mile Boundary for Membership**



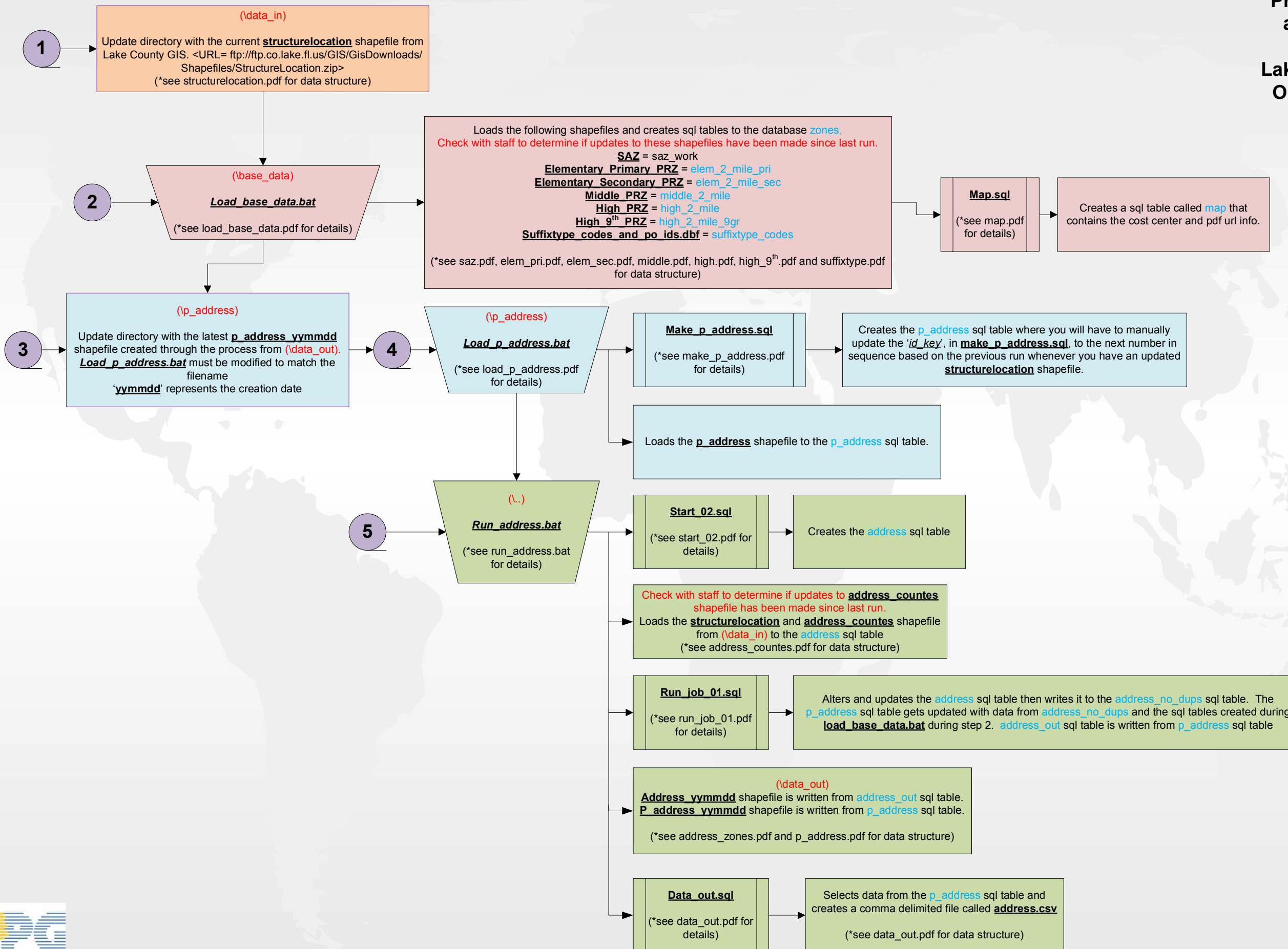
1 in = 3,000 ft



APPENDIX 12

Flow Chart Depicting Address File Creation Process

Process for creating the address database file for the Lake County School Board Online Address Lookup



APPENDIX 13

**Detailed Backup Materials Representing the Component Elements
of the Flow Chart Depicting Address File Creation Process**

Structure Location

Shapefile

Description	Spatial	Attributes
-------------	---------	------------

Details for StructureLocation

Type of object: Feature Class

Number of records: 164939

Description

Location of known addresses

Attributes

StructureU

Alias: FID

Data type: String

Width: 1

Definition:

Internal feature number.

Definition Source:

ESRI

SHAPE

Alias: Shape

Data type: Geometry

Width: 0

Precision: 0

Scale: 0

Definition:

Feature geometry.

Definition Source:

ESRI

OBJECTID

Alias: OBJECTID

Data type: Number

Width: 10

Shape

Alias: StreetNumb

Data type: String

Width: 10

Precision: 0

Scale: 0

Definition:

Feature geometry.

Definition Source:

ESRI

StreetNumb

Alias: PrefixDire
Data type: String
Width: 10

PrefixDire

Alias: PrefixType
Data type: String
Width: 2

PrefixType

Alias: StreetName
Data type: String
Width: 2

StreetName

Alias: SuffixType
Data type: String
Width: 40
Definition:
Name of the street

SuffixType

Alias: SuffixDire
Data type: String
Width: 6
Definition:
Type of street; ie Rd., St., etc

SuffixDire

Alias: Building
Data type: String
Width: 2

Building

Alias: UnitType
Data type: String
Width: 4
Definition:
Building identifier

UnitType

Alias: ZIPCode
Data type: String
Width: 10

Definition:
Type of unit

ZIPCode

Alias: UnitNumber
Data type: String
Width: 10

UnitNumber

Alias: City
Data type: String
Width: 6
Definition:
Unit identifier

City

Alias: PlaceName
Data type: String
Width: 30
Definition:
Any one of the 14 incorporated cities in the county

PlaceName

Alias: HasStructu
Data type: String
Width: 60
Definition:
Common name of the area

HasStructu

Alias: CODate
Data type: String
Width: 1

CODate

Alias: CONumber
Data type: Date
Width: 8
Definition:
Date of CO issuance

CONumber

Alias: PreAltKey
Data type: String
Width: 10
Definition:
Certificate of Occupancy number

Comments

Alias: Comments
Data type: String
Width: 254

PreAltKey

Alias: StructureU
Data type: String
Width: 7
Definition:
Feature geometry.
Definition Source:
ESRI

```

load_base_data.bat
shp2pgsql -D -d -I Elementary_Primary_PRZ.shp elem_2_mile_pri | psql -d zones -U postgres
shp2pgsql -D -d -I Elementary_Secondary_PRZ.shp elem_2_mile_sec | psql -d zones -U postgres
shp2pgsql -D -d -I Middle_PRZ.shp middle_2_mile | psql -d zones -U postgres
shp2pgsql -D -d -I High_PRZ.shp high_2_mile | psql -d zones -U postgres
shp2pgsql -D -d -I High_9th_PRZ.shp high_2_mile_9gr | psql -d zones -U postgres

shp2pgsql -D -d -I SAZ.shp saz_work | psql -d zones -U postgres

psql -d zones -f map.sql -U postgres

psql -d zones -c "drop table suffixtype_codes" -U postgres
perl dbf2sql.pl Suffixtype_codes_and_PO_ids.dbf suffixtype_codes | psql -d zones -U postgres
pause

```

SAZ

Shapefile

Description	Spatial	Attributes
<p>Details for SAZ</p> <p>Type of object: Feature Class Number of records: 570</p> <p>Attributes</p> <p>FID</p> <p>Alias: FID Data type: OID Width: 4 Precision: 0 Scale: 0 Definition: Internal feature number. Definition Source: ESRI</p> <p>Shape</p> <p>Alias: Shape Data type: Geometry Width: 0 Precision: 0 Scale: 0 Definition: Feature geometry. Definition Source: ESRI</p> <p>HIGH_EX</p> <p>Alias: HIGH_EX Data type: String Width: 10</p> <p>MIDDLE_EX</p> <p>Alias: MIDDLE_EX Data type: String Width: 10</p> <p>ELEM_EX</p> <p>Alias: ELEM_EX Data type: String Width: 32</p>		

ELEM_SEC

Alias: ELEM_SEC
Data type: String
Width: 30

SAZ

Alias: SAZ
Data type: String
Width: 10

CNTR_ELEM

Alias: CNTR_ELEM
Data type: String
Width: 4

NAME_ELEM

Alias: NAME_ELEM
Data type: String
Width: 31

CNTR_EL_SE

Alias: CNTR_EL_SE
Data type: String
Width: 4

NAME_EL_SE

Alias: NAME_EL_SE
Data type: String
Width: 31

CNTR_MIDDL

Alias: CNTR_MIDDL
Data type: String
Width: 4

NAME_MIDDL

Alias: NAME_MIDDL
Data type: String
Width: 20

CNTR_HIGH

Alias: CNTR_HIGH
Data type: String
Width: 4

NAME_HIGH

Alias: NAME_HIGH
Data type: String
Width: 31

BUS_ELEM

Alias: BUS_ELEM
Data type: String
Width: 1

BUS_MIDDLE

Alias: BUS_MIDDLE
Data type: String
Width: 1

BUS_HIGH

Alias: BUS_HIGH
Data type: String
Width: 1

INTERLOCAL

Alias: INTERLOCAL
Data type: String
Width: 6

Elementary_Primary_2Mile_for_FTE_with_Hazardous_07152009

Shapefile

Description	Spatial	Attributes
-------------	---------	------------

Details for Elementary_Primary_2Mile_for_FTE_with_Hazardous_07152009

Type of object: Feature Class

Number of records: 44

Attributes

FID

Alias: FID

Data type: OID

Width: 4

Precision: 0

Scale: 0

Definition:

Internal feature number.

Definition Source:

ESRI

Shape

Alias: Shape

Data type: Geometry

Width: 0

Precision: 0

Scale: 0

Definition:

Feature geometry.

Definition Source:

ESRI

Sch_Cntr

Alias: Sch_Cntr

Data type: String

Width: 4

Sch_Name

Alias: Sch_Name

Data type: String

Width: 50

Symbology

Alias: Symbology

Data type: String

Width: 50

Edu_Type

Alias: Edu_Type

Data type: String
Width: 12

Zone_Class

Alias: Zone_Class
Data type: String
Width: 12

Eval_Date

Alias: Eval_Date
Data type: Date
Width: 8

Scale

Alias: Scale
Data type: Number
Width: 9

hwr

Alias: hwr
Data type: String
Width: 5

PRZ

Alias: PRZ
Data type: String
Width: 1

Elementary_Secondary_2Mile_for_FTE_with_Hazardous_07152009 Shapefile

Description	Spatial	Attributes
-------------	---------	------------

Details for Elementary_Secondary_2Mile_for_FTE_with_Hazardous_07152009

Type of object: Feature Class

Number of records: 41

Attributes

FID

Alias: FID

Data type: OID

Width: 4

Precision: 0

Scale: 0

Definition:

Internal feature number.

Definition Source:

ESRI

Shape

Alias: Shape

Data type: Geometry

Width: 0

Precision: 0

Scale: 0

Definition:

Feature geometry.

Definition Source:

ESRI

Sch_Cntr

Alias: Sch_Cntr

Data type: String

Width: 4

Sch_Name

Alias: Sch_Name

Data type: String

Width: 50

Symbology

Alias: Symbology

Data type: String

Width: 50

Edu_Type

Alias: Edu_Type

Data type: String

Width: 12

Zone_Class

Alias: Zone_Class
Data type: String
Width: 12

Eval_Date

Alias: Eval_Date
Data type: Date
Width: 8

Scale

Alias: Scale
Data type: Number
Width: 9

hwr

Alias: hwr
Data type: String
Width: 5

PRZ

Alias: PRZ
Data type: String
Width: 1

Middle_Schools_County- wide_PRZs_Board_Approved_07132009

Shapefile

Description	Spatial	Attributes
-------------	---------	------------

Details for Middle_Schools_County-wide_PRZs_Board_Approved_07132009

Type of object: Feature Class

Number of records: 22

Attributes

FID

Alias: FID

Data type: OID

Width: 4

Precision: 0

Scale: 0

Definition:

Internal feature number.

Definition Source:

ESRI

Shape

Alias: Shape

Data type: Geometry

Width: 0

Precision: 0

Scale: 0

Definition:

Feature geometry.

Definition Source:

ESRI

Sch_Cntr

Alias: Sch_Cntr

Data type: String

Width: 4

Sch_Name

Alias: Sch_Name

Data type: String

Width: 50

Symbology

Alias: Symbology

Data type: String

Width: 50

Edu_Type

*Alias: Edu_Type
Data type: String
Width: 12*

Zone_Class

*Alias: Zone_Class
Data type: String
Width: 12*

Eval_Date

*Alias: Eval_Date
Data type: Date
Width: 8*

Scale

*Alias: Scale
Data type: Number
Width: 9*

hwr

*Alias: hwr
Data type: String
Width: 5*

Scale2

*Alias: Scale2
Data type: Number
Width: 9*

PRZ

*Alias: PRZ
Data type: String
Width: 1*

High_Schools_County- wide_PRZs_Board_Approved_07132009

Shapefile

Description	Spatial	Attributes
-------------	---------	------------

Details for High_Schools_County-wide_PRZs_Board_Approved_07132009

Type of object: Feature Class

Number of records: 7

Attributes

FID

Alias: FID

Data type: OID

Width: 4

Precision: 0

Scale: 0

Definition:

Internal feature number.

Definition Source:

ESRI

Shape

Alias: Shape

Data type: Geometry

Width: 0

Precision: 0

Scale: 0

Definition:

Feature geometry.

Definition Source:

ESRI

Sch_Cntr

Alias: Sch_Cntr

Data type: String

Width: 4

Sch_Name

Alias: Sch_Name

Data type: String

Width: 50

Symbology

Alias: Symbology

Data type: String

Width: 50

Edu_Type

*Alias: Edu_Type
Data type: String
Width: 12*

Zone_Class

*Alias: Zone_Class
Data type: String
Width: 12*

Eval_Date

*Alias: Eval_Date
Data type: Date
Width: 8*

Scale

*Alias: Scale
Data type: Number
Width: 7*

Scale_3636

*Alias: Scale_3636
Data type: Number
Width: 9*

hwr

*Alias: hwr
Data type: String
Width: 5*

PRZ

*Alias: PRZ
Data type: String
Width: 1*

Eustis_9th_Grade_Center_PRZs_Board_Approved_07132009

Shapefile

Description	Spatial	Attributes
-------------	---------	------------

Details for Eustis_9th_Grade_Center_PRZs_Board_Approved_07132009

Type of object: Feature Class

Number of records: 1

Attributes

FID

Alias: FID

Data type: OID

Width: 4

Precision: 0

Scale: 0

Definition:

Internal feature number.

Definition Source:

ESRI

Shape

Alias: Shape

Data type: Geometry

Width: 0

Precision: 0

Scale: 0

Definition:

Feature geometry.

Definition Source:

ESRI

Sch_Cntr

Alias: Sch_Cntr

Data type: String

Width: 4

Sch_Name

Alias: Sch_Name

Data type: String

Width: 50

Symbology

Alias: Symbology

Data type: String

Width: 50

Edu_Type

Alias: Edu_Type
Data type: String
Width: 12

Zone_Class

Alias: Zone_Class
Data type: String
Width: 12

Eval_Date

Alias: Eval_Date
Data type: Date
Width: 8

Scale

Alias: Scale
Data type: Number
Width: 9

hwr

Alias: hwr
Data type: String
Width: 5

PRZ

Alias: PRZ
Data type: String
Width: 1

Suffixtype_codes_and_PO_ids

dBASE Table

Description	Spatial	Attributes
<p>Details for Suffixtype_codes_and_PO_ids</p> <p>Type of object: Table</p> <p>Number of records: 40</p> <p>Attributes</p> <p>OID</p> <p>Alias: OID</p> <p>Data type: OID</p> <p>Width: 4</p> <p>Precision: 0</p> <p>Scale: 0</p> <p>Definition:</p> <p>Internal feature number.</p> <p>Definition Source:</p> <p>ESRI</p> <p>SUFFIXTYPE</p> <p>Alias: SUFFIXTYPE</p> <p>Data type: String</p> <p>Width: 12</p> <p>SUFF_FIX</p> <p>Alias: SUFF_FIX</p> <p>Data type: String</p> <p>Width: 11</p>		

map.sql

```
DROP TABLE map;
```

```
CREATE TABLE map  
(  
code varchar,  
type varchar,  
path varchar,  
path_2mile varchar,  
path_es varchar,  
path_9 varchar,  
prz_path varchar,  
prz_9path varchar,  
prz_es varchar,  
junc varchar  
);
```

```
INSERT INTO "map" VALUES(  
'000J', 'elementary', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Elementary_J.pdf', 'None', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Elementary_J_Sec.pdf', 'None', 'None', 'None', 'None');  
INSERT INTO "map" VALUES(  
'0271', 'elementary', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Astatula_Elementary.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/Elementary/Astatula_Elementary_2_mile_Zone.pdf', 'None', 'None', 'None', 'None', 'None');  
INSERT INTO "map" VALUES(  
'0031', 'elementary', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Beverly_Shores_Elementary.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/Elementary/Beverly_Shores_Elementary_2_mile_Zone.pdf', 'None', 'None', 'None', 'None', 'None');  
INSERT INTO "map" VALUES(  
'0041', 'elementary', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Clermont_Elementary.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/Elementary/Clermont_Elementary_2_mile_Zone.pdf', 'None', 'None', 'None', 'None', 'None');  
INSERT INTO "map" VALUES(  
'0068', 'elementary', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Grassy_Lake_Elementary.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/Elementary/Grassy_Lake_Elementary_2_mile_Zone.pdf', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Grassy_Lake_Elementary_Sec.pdf', 'None', 'None', 'None', 'None');  
INSERT INTO "map" VALUES(  
'0067', 'elementary', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Sawgrass_Bay_Elementary.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/Elementary/Sawgrass_Bay_Elementary_2_mile_Zone.pdf', 'None', 'None', 'None', 'None', 'None');  
INSERT INTO "map" VALUES(  
'0061', 'elementary', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Eustis_Elementary.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/Elementary/Eustis_Elementary_2_mile_Zone.pdf', 'None', 'None', 'None', 'None', 'None');  
INSERT INTO "map" VALUES(  
'0071', 'elementary', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Eustis_Heights_Elementary.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/Elementary/Eustis_Heights_Elementary_2_mile_Zone.pdf', 'None', 'None', 'None', 'None', 'None');  
INSERT INTO "map" VALUES(  
'0101', 'elementary', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Fruitland_Park_Elementary.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/Elementary/Fruitland_Park_Elementary_2_mile_Zone.pdf', 'None', 'None', 'None', 'None', 'None');
```

Page 1

map.sql

```
p://lpgmapserver.com/School_Zone_TwoMile_Maps/Elementary/Fruitland_Park_Elementary_2_mile_Zone.pdf', 'None', 'None', 'None', 'None', 'None');
INSERT INTO "map" VALUES(
'0382', 'elementary', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Groveland_Elementary.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/Elementary/Groveland_Elementary_2_mile_Zone.pdf', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Groveland_Elementary_Sec.pdf', 'None', 'None', 'None', 'None');
INSERT INTO "map" VALUES(
'0291', 'elementary', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Leesburg_Elementary.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/Elementary/Leesburg_Elementary_2_mile_Zone.pdf', 'None', 'None', 'None', 'None', 'None');
INSERT INTO "map" VALUES(
'0281', 'elementary', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Lost_Lake_Elementary.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/Elementary/Lost_Lake_Elementary_2_mile_Zone.pdf', 'None', 'None', 'None', 'None', 'None');
INSERT INTO "map" VALUES(
'0541', 'elementary', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Mascotte_Elementary.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/Elementary/Mascotte_Elementary_2_mile_Zone.pdf', 'None', 'None', 'None', 'None', 'None');
INSERT INTO "map" VALUES(
'0261', 'elementary', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Minneola_Elementary.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/Elementary/Minneola_Elementary_2_mile_Zone.pdf', 'None', 'None', 'None', 'None', 'None');
INSERT INTO "map" VALUES(
'0591', 'elementary', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Pine_Ridge_Elementary.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/Elementary/Pine_Ridge_Elementary_2_mile_Zone.pdf', 'None', 'None', 'None', 'None', 'None');
INSERT INTO "map" VALUES(
'0149', 'elementary', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Round_Lake_Elementary.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/Elementary/Round_Lake_Elementary_2_mile_Zone.pdf', 'None', 'None', 'None', 'None', 'None');
INSERT INTO "map" VALUES(
'0141', 'elementary', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Seminole_Springs_Elementary.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/Elementary/Seminole_Springs_Elementary_2_mile_Zone.pdf', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Seminole_Springs_Elementary_Sec.pdf', 'None', 'None', 'None', 'None');
INSERT INTO "map" VALUES(
'0631', 'elementary', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Spring_Creek_Elementary.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/Elementary/Spring_Creek_Elementary_2_mile_Zone.pdf', 'None', 'None', 'None', 'None', 'None');
INSERT INTO "map" VALUES(
'0551', 'elementary', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Tavares_Elementary.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/Elementary/Tavares_Elementary_2_mile_Zone.pdf', 'None', 'None', 'None', 'None', 'None');
INSERT INTO "map" VALUES(
'0119', 'elementary', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/The_Villages_Elementary.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/Elementary/The_Villages_Elementary_2_mile_Zone.pdf', 'None', 'None', 'None', 'None', 'None');
INSERT INTO "map" VALUES(
'0241', 'elementary', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Treadway_Elementary.pdf', 'http://lpg
```

Page 2

map.sql

```
gmapserver.com/School_Zone_TwoMile_Maps/Elementary/Treadway_Elementary_2_mile_Zone.pdf', 'None', 'None', 'None', 'None', 'None');
INSERT INTO "map" VALUES(
'0521', 'elementary', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Triangle_Elementary.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/Elementary/Triangle_Elementary_2_mile_Zone.pdf', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Triangle_Elementary_Sec.pdf', 'None', 'None', 'None', 'None');
INSERT INTO "map" VALUES(
'0561', 'elementary', 'http://lpgmapserver.com/School_Zone_Maps/Elementary/Umatilla_Elementary.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/Elementary/Umatilla_Elementary_2_mile_Zone.pdf', 'None', 'None', 'None', 'None');
INSERT INTO "map" VALUES(
'0BBB', 'high', 'http://lpgmapserver.com/School_Zone_Maps/High/BBB_High.pdf', 'None', 'None', 'None', 'http://lpgmapserver.com/School_Zone_PRZ/High/High_PRZ_Map_BBB.pdf', 'None', 'None');
INSERT INTO "map" VALUES(
'0801', 'high', 'http://lpgmapserver.com/School_Zone_Maps/High/East_Ridge_High.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/High/East_Ridge_High_2_mile_Zone.pdf', 'None', 'None', 'http://lpgmapserver.com/School_Zone_PRZ/High/High_PRZ_Map_East_Ridge.pdf', 'None', 'None');
INSERT INTO "map" VALUES(
'0081', 'high', 'http://lpgmapserver.com/School_Zone_Maps/High/Eustis_High.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/High/Eustis_High_2_mile_Zone.pdf', 'None', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/High/Eustis_High_9GR_2_mile_Zone.pdf', 'http://lpgmapserver.com/School_Zone_PRZ/High/High_PRZ_Map_Eustis.pdf', 'http://lpgmapserver.com/School_Zone_PRZ/High/High_PRZ_Map_Eustis_9th.pdf', 'None');
INSERT INTO "map" VALUES(
'0161', 'high', 'http://lpgmapserver.com/School_Zone_Maps/High/Leesburg_High.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/High/Leesburg_High_2_mile_Zone.pdf', 'None', 'None', 'http://lpgmapserver.com/School_Zone_PRZ/High/High_PRZ_Map_Leesburg.pdf', 'None', 'None');
INSERT INTO "map" VALUES(
'0181', 'high', 'http://lpgmapserver.com/School_Zone_Maps/High/Mount_Dora_High.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/High/Mount_Dora_High_2_mile_Zone.pdf', 'None', 'None', 'http://lpgmapserver.com/School_Zone_PRZ/High/High_PRZ_Map_Mount_Dora.pdf', 'None', 'None');
INSERT INTO "map" VALUES(
'0701', 'high', 'http://lpgmapserver.com/School_Zone_Maps/High/South_Lake_High.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/High/South_Lake_High_2_mile_Zone.pdf', 'None', 'None', 'http://lpgmapserver.com/School_Zone_PRZ/High/High_PRZ_Map_South_Lake.pdf', 'None', 'None');
INSERT INTO "map" VALUES(
'0211', 'high', 'http://lpgmapserver.com/School_Zone_Maps/High/Tavares_High.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/High/Tavares_High_2_mile_Zone.pdf', 'None', 'None', 'http://lpgmapserver.com/School_Zone_PRZ/High/High_PRZ_Map_Tavares.pdf', 'None', 'None');
INSERT INTO "map" VALUES(
'0231', 'high', 'http://lpgmapserver.com/School_Zone_Maps/High/Umatilla_High.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/High/Umatilla_High_2_mile_Zone.pdf', 'None', 'None', 'http://lpgmapserver.com/School_Zone_PRZ/High/High_PRZ_Map_Umatilla.pdf', 'None', 'None');
INSERT INTO "map" VALUES(
'0351', 'middle', 'http://lpgmapserver.com/School_Zone_Maps/Middle/Carver_Middle.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/Middle/Carver_Middle_2_mile_Zone.pdf', 'None', 'None', 'http://lpgmapserver.com/School_Zone_PRZ/Middle/Middle_PRZ_Map_Carver.pdf', 'None', 'None');
INSERT INTO "map" VALUES(
'0401', 'middle', 'http://lpgmapserver.com/School_Zone_Maps/Middle/Clermont_Middle.pdf', 'http://lpgmapserver.com/School_Zone_TwoMile_Maps/Middle/Clermont_Middle_2_mile_Zone.pdf', 'None', 'None', 'http://lpgmapserver.com/S
```

```

map.sql
chool_Zone_PRZ/Middle/Middle_PRZ_Map_Clermont.pdf', 'None', 'None');
INSERT INTO "map" VALUES(
'0697', 'middle', 'http://lpgmapserver.com/School_Zone_Maps/Middle/Eustis_Middle.pdf', 'http://lpgmapserver.com
/School_Zone_TwoMile_Maps/Middle/Eustis_Middle_2_mile_Zone.pdf', 'None', 'None', 'http://lpgmapserver.com/Schoo
l_Zone_PRZ/Middle/Middle_PRZ_Map_Eustis.pdf', 'None', 'None');
INSERT INTO "map" VALUES(
'0113', 'middle', 'http://lpgmapserver.com/School_Zone_Maps/Middle/Gray_Middle.pdf', 'http://lpgmapserver.com/S
chool_Zone_TwoMile_Maps/Middle/Gray_Middle_2_mile_Zone.pdf', 'None', 'None', 'http://lpgmapserver.com/School_Zo
ne_PRZ/Middle/Middle_PRZ_Map_Gray.pdf', 'None', 'None');
INSERT INTO "map" VALUES(
'0411', 'middle', 'http://lpgmapserver.com/School_Zone_Maps/Middle/Mount_Dora_Middle.pdf', 'http://lpgmapserver
.com/School_Zone_TwoMile_Maps/Middle/Mount_Dora_Middle_2_mile_Zone.pdf', 'None', 'None', 'http://lpgmapserver.c
om/School_Zone_PRZ/Middle/Middle_PRZ_Map_Mount_Dora.pdf', 'None', 'None');
INSERT INTO "map" VALUES(
'0080', 'middle', 'http://lpgmapserver.com/School_Zone_Maps/Middle/East_Ridge_Middle.pdf', 'http://lpgmapserver
.com/School_Zone_TwoMile_Maps/Middle/East_Ridge_Middle_2_mile_Zone.pdf', 'None', 'None', 'http://lpgmapserver.c
om/School_Zone_PRZ/Middle/Middle_PRZ_Map_East_Ridge.pdf', 'None', 'None');
INSERT INTO "map" VALUES(
'0251', 'middle', 'http://lpgmapserver.com/School_Zone_Maps/Middle/Oak_Park_Middle.pdf', 'http://lpgmapserver.c
om/School_Zone_TwoMile_Maps/Middle/Oak_Park_Middle_2_mile_Zone.pdf', 'None', 'None', 'http://lpgmapserver.com/S
chool_Zone_PRZ/Middle/Middle_PRZ_Map_Oak_Park.pdf', 'None', 'None');
INSERT INTO "map" VALUES(
'0213', 'middle', 'http://lpgmapserver.com/School_Zone_Maps/Middle/Tavares_Middle.pdf', 'http://lpgmapserver.co
m/School_Zone_TwoMile_Maps/Middle/Tavares_Middle_2_mile_Zone.pdf', 'None', 'None', 'http://lpgmapserver.com/Sch
ool_Zone_PRZ/Middle/Middle_PRZ_Map_Tavares.pdf', 'None', 'None');
INSERT INTO "map" VALUES(
'0571', 'middle', 'http://lpgmapserver.com/School_Zone_Maps/Middle/Umatilla_Middle.pdf', 'http://lpgmapserver.c
om/School_Zone_TwoMile_Maps/Middle/Umatilla_Middle_2_mile_Zone.pdf', 'None', 'None', 'http://lpgmapserver.com/S
chool_Zone_PRZ/Middle/Middle_PRZ_Map_Umatilla.pdf', 'None', 'None');
INSERT INTO "map" VALUES(
'0481', 'middle', 'http://lpgmapserver.com/School_Zone_Maps/Middle/Windy_Hill_Middle.pdf', 'http://lpgmapserver
.com/School_Zone_TwoMile_Maps/Middle/Windy_Hill_Middle_2_mile_Zone.pdf', 'None', 'None', 'http://lpgmapserver.c
om/School_Zone_PRZ/Middle/Middle_PRZ_Map_Windy_Hill.pdf', 'None', 'None');

```



```
load_p_address.bat
psql -d zones -f make_p_address.sql -U postgres
shp2pgsql -a -I p_address_20090306.shp p_address | psql -d zones -U postgres
psql -d zones -U postgres -c "CREATE INDEX p_address_address ON p_address (address);"
psql -d zones -U postgres -c "CREATE INDEX p_address_id_key ON p_address (id_key);"
pause
```

```
DROP INDEX IF EXISTS p_address_id_key ;
DROP INDEX IF EXISTS p_address_address ;
DROP TABLE IF EXISTS p_address;
CREATE TABLE "p_address" (gid serial PRIMARY KEY,
"streetnumb" varchar,
"prefixdire" varchar,
"prefixtype" varchar,
"streetname" varchar,
"suffixtype" varchar,
"suffixdire" varchar,
"building" varchar,
"unittype" varchar,
"unitnumber" varchar,
"city" varchar,
"zipcode" varchar,
"placename" varchar,
"hasstructu" varchar,
"prealtkey" varchar,
"county" varchar,
"structureu" varchar,
"full_addre" varchar,
"address" varchar,
"saz" varchar,
"high" varchar,
"high_cntr" varchar,
"middle" varchar,
"middle_cnt" varchar,
"elem" varchar,
"elem_cntr" varchar,
"elem_sec" varchar,
"elem_sec_c" varchar,
"interlocal" varchar,
"pointx" varchar,
"pointy" varchar,
"pdf_e" varchar,
"pdf_es" varchar,
"pdf_m" varchar,
"pdf_h" varchar,
"pdf_e_prz" varchar,
"pdf_es_prz" varchar,
"pdf_m_prz" varchar,
"pdf_h_prz" varchar,
"pdf_h9_prz" varchar,
"prz_e" varchar,
"prz_es" varchar,
"prz_m" varchar,
"prz_h" varchar,
"prz_h9" varchar,
"m2fte_e" varchar,
```

make_p_address.sql

```
"m2fte_es" varchar,  
"m2fte_m" varchar,  
"m2fte_h" varchar,  
"m2fte_h9" varchar,  
"int_object" numeric,  
"elem_tran" varchar,  
"midd_tran" varchar,  
"high_tran" varchar,  
"add_date" varchar,  
"update_dat" varchar,  
"current" varchar,  
"id_key" varchar(10)  
);  
SELECT AddGeometryColumn('', 'p_address', 'the_geom', '-1', 'POINT', 2);  
  
DROP sequence IF EXISTS p_address_sequence;  
CREATE sequence p_address_sequence start WITH 1000195653 increment BY 1;  
--SELECT id_key FROM p_address order by id_key;
```

run_address.bat

REM run_address.bat

```
psql -d zones -f start_02.sql -U postgres
shp2pgsql -D -a -I data_in\StructureLocation.shp address | psql -d zones -U postgres
psql -d zones -U postgres -c "ALTER TABLE address ADD COLUMN county varchar;"
psql -d zones -U postgres -c "UPDATE address SET county = 'Lake';"
shp2pgsql -a data_in\address_countes.shp address | psql -d zones -U postgres

psql -d zones -f run_job_01.sql -U postgres

pgsql2shp -f data_out\Address_yymmdd.shp -P hotcat -u postgres zones address_out
pgsql2shp -f data_out\p_address_yymmdd.shp -P hotcat -u postgres zones p_address
copy data_in\StructureLocation.prj data_out\Address_yymmdd.prj
copy data_in\StructureLocation.prj data_out\p_address_yymmdd.prj
psql -d zones -f data_out.sql -U postgres --output data_out\address.csv
pause
```

start_02.sql

```
DROP TABLE IF EXISTS address;
```

```
CREATE TABLE address (  
  gid serial PRIMARY KEY,  
  objectid character varying,  
  streetnumb character varying,  
  prefixdire character varying,  
  prefixtype character varying,  
  streetname character varying,  
  suffixtype character varying,  
  suffixdire character varying,  
  building character varying,  
  unittype character varying,  
  unitnumber character varying,  
  city character varying,  
  zipcode character varying,  
  placename character varying,  
  hasstructu character varying,  
  conumber character varying,  
  codate date,  
  prealtkey character varying,  
  comments character varying,  
  structureu character varying);  
SELECT AddGeometryColumn('', 'address', 'the_geom', '-1', 'POINT', 2);  
--CREATE INDEX "address_the_geom_gist" ON "address" using gist ("the_geom" gist_geometry_ops);
```

address_countes

Shapefile

Description	Spatial	Attributes
-------------	---------	------------

Details for address_countes

Type of object: Feature Class

Number of records: 27794

Attributes

FID

Alias: FID

Data type: OID

Width: 4

Precision: 0

Scale: 0

Definition:

Internal feature number.

Definition Source:

ESRI

Shape

Alias: Shape

Data type: Geometry

Width: 0

Precision: 0

Scale: 0

Definition:

Feature geometry.

Definition Source:

ESRI

STREETNUMB

Alias: STREETNUMB

Data type: String

Width: 8

PREFIXDIRE

Alias: PREFIXDIRE

Data type: String

Width: 8

STREETNAME

Alias: STREETNAME

Data type: String

Width: 40

SUFFIXTYPE

Alias: SUFFIXTYPE

Data type: String

Width: 9

BUILDING

Alias: BUILDING

Data type: String

Width: 4

UNITNUMBER

Alias: UNITNUMBER

Data type: String

Width: 6

CITY

Alias: CITY

Data type: String

Width: 30

ZIPCODE

Alias: ZIPCODE

Data type: String

Width: 10

PLACENAME

Alias: PLACENAME

Data type: String

Width: 60

HASSTRUCTU

Alias: HASSTRUCTU

Data type: String

Width: 1

CONUMBER

Alias: CONUMBER

Data type: String

Width: 10

COMMENTS

Alias: COMMENTS

Data type: String

Width: 40

PREALTKEY

Alias: PREALTKEY
Data type: String
Width: 16

STRUCTUREU

Alias: STRUCTUREU
Data type: String
Width: 16

COUNTY

Alias: COUNTY
Data type: String
Width: 7


```
-- run_job07.sql
```

```
ALTER TABLE address DROP COLUMN conumber;
ALTER TABLE address DROP COLUMN codate;
ALTER TABLE address DROP COLUMN comments;
DELETE FROM address WHERE city IS NULL;
DELETE FROM address WHERE city = '';
ALTER TABLE address ADD COLUMN update_date varchar;
ALTER TABLE address ADD COLUMN add_date varchar;
UPDATE address SET update_date = (SELECT CURRENT_DATE);
UPDATE address SET add_date = (SELECT CURRENT_DATE);

ALTER TABLE address ADD COLUMN full_addre varchar;
ALTER TABLE address ADD COLUMN address varchar;

UPDATE address SET full_addre = COALESCE(address.streetnumb,'') || ' ' || COALESCE(address.prefixdire,'')
|| ' ' ||
COALESCE(address.suffixtype,'') || ', ' ||
COALESCE(address.zipcode,'');
COALESCE(address.city,'') || ' FL, ' ||

UPDATE address SET prefixdire = UPPER(prefixdire);
UPDATE address SET streetname = UPPER(streetname);
UPDATE address SET city = UPPER(city);
UPDATE address SET county = UPPER(county);
UPDATE address SET suffixtype = UPPER(suffixtype);

UPDATE address
SET suffixtype = (SELECT suffixtype_codes.suff_fix FROM suffixtype_codes
WHERE address.suffixtype = suffixtype_codes.suffixtype);

UPDATE address SET address = COALESCE(address.streetnumb,'') || ' ' || COALESCE(address.prefixdire,'') || ' '
||
COALESCE(address.suffixtype,'') || ', ' ||
COALESCE(address.city,'') ;

DROP TABLE IF EXISTS address_no_dups;

SELECT *
INTO address_no_dups
FROM address
WHERE gid IN
(SELECT MAX(gid)
FROM address
GROUP BY address);
```

run_job_01.sql

```
ALTER TABLE address_no_dups ADD COLUMN pointx varchar;
ALTER TABLE address_no_dups ADD COLUMN pointy varchar;

UPDATE address_no_dups
  SET pointx = round(X(address_no_dups.the_geom));

UPDATE address_no_dups
  SET pointy = round(Y(address_no_dups.the_geom));

CREATE INDEX address_no_dups_address ON address_no_dups (address);

UPDATE p_address SET current = 'N';

UPDATE p_address
  SET zipcode = address_no_dups.zipcode,
  placename = address_no_dups.placename,
  hasstructu = address_no_dups.hasstructu,
  prealtkey = address_no_dups.prealkey,
  structureu = address_no_dups.structureu,
  the_geom = address_no_dups.the_geom,
  county = address_no_dups.county,
  pointx = address_no_dups.pointx,
  pointy = address_no_dups.pointy,
  update_dat = address_no_dups.update_date,
  current = 'Y'
FROM address_no_dups
  WHERE address_no_dups.address = p_address.address;

INSERT INTO p_address
( gid,
  streetnumb ,
  prefixdire ,
  prefixtype ,
  streetname ,
  suffixtype ,
  suffixdire ,
  building ,
  unittype ,
  unitnumber ,
  city ,
  zipcode ,
  placename ,
  hasstructu ,
  prealtkey ,
  structureu ,
  full_addre ,
```

Page 2

run_job_01.sql

```
        address ,
        county ,
        the_geom ,
update_dat ,
add_date ,
current,
pointx ,
pointy,
id_key )
SELECT nextval('p_address_sequence'),
       streetnumb ,
       prefixdire ,
       prefixtype ,
       streetname ,
       suffixtype ,
       suffixdire ,
       building ,
       unitttype ,
       unitnumber ,
       city ,
       zipcode ,
       placename ,
       hasstructu ,
       prealtkey ,
       structureu ,
       full_addre ,
       address ,
       county ,
       the_geom ,
       update_date ,
       add_date ,
       'Y',
       pointx ,
       pointy ,
       currval('p_address_sequence')
FROM address_no_dups
WHERE not exists (select * from p_address
where address_no_dups.address = p_address.address);
```

```
UPDATE p_address
SET saz = (SELECT saz_work.saz FROM saz_work
           WHERE saz_work.the_geom && p_address.the_geom
           AND contains(saz_work.the_geom,p_address.the_geom));
```

```
UPDATE p_address
SET high = (SELECT saz_work.name_high FROM saz_work
            WHERE saz_work.saz = p_address.saz);
```

run_job_01.sql

```
UPDATE p_address
  SET middle = (SELECT saz_work.name_middl FROM saz_work
                WHERE saz_work.saz = p_address.saz);

UPDATE p_address
  SET elem = (SELECT saz_work.name_elem FROM saz_work
              WHERE saz_work.saz = p_address.saz);

UPDATE p_address
  SET elem_sec = (SELECT saz_work.name_el_se FROM saz_work
                  WHERE saz_work.saz = p_address.saz);

UPDATE p_address
  SET high_cntr = (SELECT saz_work.cntr_high FROM saz_work
                  WHERE saz_work.saz = p_address.saz);

UPDATE p_address
  SET middle_cnt = (SELECT saz_work.cntr_middl FROM saz_work
                   WHERE saz_work.saz = p_address.saz);

UPDATE p_address
  SET elem_cntr = (SELECT saz_work.cntr_elem FROM saz_work
                  WHERE saz_work.saz = p_address.saz);

UPDATE p_address
  SET elem_sec_c = (SELECT saz_work.cntr_el_se FROM saz_work
                   WHERE saz_work.saz = p_address.saz);

UPDATE p_address
  SET interlocal = (SELECT saz_work.interlocal FROM saz_work
                    WHERE saz_work.saz = p_address.saz);

UPDATE p_address SET elem_tran = 'NONE', midd_tran = 'NONE', high_tran = 'NONE';
UPDATE p_address
  SET high_tran = (SELECT saz_work.bus_high FROM saz_work
                  WHERE saz_work.saz = p_address.saz);

UPDATE p_address
  SET midd_tran = (SELECT saz_work.bus_middle FROM saz_work
                  WHERE saz_work.saz = p_address.saz);

UPDATE p_address
  SET elem_tran = (SELECT saz_work.bus_elem FROM saz_work
                  WHERE saz_work.saz = p_address.saz);

UPDATE p_address
```

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run_job_01.sql

```
SET pdf_e = (SELECT map.path FROM map
WHERE map.code = p_address.elem_cntr);
```

```
UPDATE p_address
SET pdf_es = (SELECT map.path_es FROM map
WHERE map.code = p_address.elem_sec_c);
```

```
UPDATE p_address
SET pdf_m = (SELECT map.path FROM map
WHERE map.code = p_address.middle_cnt);
```

```
UPDATE p_address
SET pdf_h = (SELECT map.path FROM map
WHERE map.code = p_address.high_cntr);
```

```
UPDATE p_address SET pdf_e = 'NONE' WHERE p_address.pdf_e is NULL;
UPDATE p_address SET pdf_es = 'NONE' WHERE p_address.pdf_es is NULL;
UPDATE p_address SET pdf_m = 'NONE' WHERE p_address.pdf_m is NULL;
UPDATE p_address SET pdf_h = 'NONE' WHERE p_address.pdf_h is NULL;
```

```
UPDATE p_address
SET pdf_e_prz = (SELECT map.prz_path FROM map
WHERE map.code = p_address.elem_cntr);
```

```
UPDATE p_address
SET pdf_es_prz = (SELECT map.prz_es FROM map
WHERE map.code = p_address.elem_sec_c);
```

```
UPDATE p_address
SET pdf_m_prz = (SELECT map.prz_path FROM map
WHERE map.code = p_address.middle_cnt);
```

```
UPDATE p_address
SET pdf_h_prz = (SELECT map.prz_path FROM map
WHERE map.code = p_address.high_cntr);
```

```
UPDATE p_address
SET pdf_h9_prz = (SELECT map.prz_9path FROM map
WHERE map.code = p_address.high_cntr);
```

```
UPDATE p_address SET pdf_e_prz = 'NONE' WHERE p_address.pdf_e_prz is NULL;
UPDATE p_address SET pdf_es_prz = 'NONE' WHERE p_address.pdf_es_prz is NULL;
UPDATE p_address SET pdf_m_prz = 'NONE' WHERE p_address.pdf_m_prz is NULL;
UPDATE p_address SET pdf_h_prz = 'NONE' WHERE p_address.pdf_h_prz is NULL;
UPDATE p_address SET pdf_h9_prz = 'NONE' WHERE p_address.pdf_h9_prz is NULL;
```

```
UPDATE p_address
```

```

run_job_01.sql
SET middle = p_address.county || ' County Schools'
WHERE p_address.middle IS NULL;

UPDATE p_address
SET elem = p_address.county || ' County Schools'
WHERE p_address.elem IS NULL;

UPDATE p_address
SET high = p_address.county || ' County Schools'
WHERE p_address.high IS NULL;

UPDATE p_address
SET elem_sec = 'N/A'
WHERE p_address.elem_sec IS NULL;

UPDATE p_address SET int_object = p_address.gid;

UPDATE p_address SET m2fte_h = 'N', m2fte_h9 = 'N', m2fte_m = 'N', m2fte_e = 'N', m2fte_es = 'N';

UPDATE p_address
SET m2fte_e = 'Y' FROM elem_2_mile_pri
WHERE elem_2_mile_pri.the_geom && p_address.the_geom
AND contains(elem_2_mile_pri.the_geom,p_address.the_geom);

UPDATE p_address
SET m2fte_es = 'Y' FROM elem_2_mile_sec
WHERE elem_2_mile_sec.the_geom && p_address.the_geom
AND contains(elem_2_mile_sec.the_geom,p_address.the_geom);

UPDATE p_address
SET m2fte_m = 'Y' FROM middle_2_mile
WHERE middle_2_mile.the_geom && p_address.the_geom
AND contains(middle_2_mile.the_geom,p_address.the_geom);

UPDATE p_address
SET m2fte_h = 'Y' FROM high_2_mile
WHERE high_2_mile.the_geom && p_address.the_geom
AND contains(high_2_mile.the_geom,p_address.the_geom);

UPDATE p_address
SET m2fte_h9 = 'Y' FROM high_2_mile_9gr
WHERE high_2_mile_9gr.the_geom && p_address.the_geom
AND contains(high_2_mile_9gr.the_geom,p_address.the_geom);

UPDATE p_address
SET prz_e = (SELECT elem_2_mile_pri.prz FROM elem_2_mile_pri
WHERE elem_2_mile_pri.the_geom && p_address.the_geom
AND contains(elem_2_mile_pri.the_geom,p_address.the_geom));

```

run_job_01.sql

```
UPDATE p_address
  SET prz_es = (SELECT elem_2_mile_sec.prz FROM elem_2_mile_sec
                WHERE elem_2_mile_sec.the_geom && p_address.the_geom
                AND contains(elem_2_mile_sec.the_geom,p_address.the_geom));

UPDATE p_address
  SET prz_m = (SELECT middle_2_mile.prz FROM middle_2_mile
                WHERE middle_2_mile.the_geom && p_address.the_geom
                AND contains(middle_2_mile.the_geom,p_address.the_geom));

UPDATE p_address
  SET prz_h = (SELECT high_2_mile.prz FROM high_2_mile
                WHERE high_2_mile.the_geom && p_address.the_geom
                AND contains(high_2_mile.the_geom,p_address.the_geom));

UPDATE p_address
  SET prz_h9 = (SELECT high_2_mile_9gr.prz FROM high_2_mile_9gr
                WHERE high_2_mile_9gr.the_geom && p_address.the_geom
                AND contains(high_2_mile_9gr.the_geom,p_address.the_geom));

UPDATE p_address SET prz_e = 'N' WHERE p_address.prz_e is NULL;
UPDATE p_address SET prz_es = 'N' WHERE p_address.prz_es is NULL;
UPDATE p_address SET prz_m = 'N' WHERE p_address.prz_m is NULL;
UPDATE p_address SET prz_h = 'N' WHERE p_address.prz_h is NULL;
UPDATE p_address SET prz_h9 = 'N' WHERE p_address.prz_h9 is NULL;
```

```
DROP TABLE IF EXISTS address_out;
```

```
SELECT
  streetnumb AS house_no ,
  prefixdire AS st_prefix ,
  streetname AS st_name ,
  suffixtype AS st_type ,
  building ,
  unitnumber AS unit ,
  city,
  zipcode ,
  placename AS place_name ,
  hasstructu AS structure ,
  prealtkey AS altkey ,
  structureu AS usetype ,
  the_geom ,
  county ,
  address ,
  full_addre ,
  saz ,
```

run_job_01.sql

```
high ,
high_cntr ,
middle ,
middle_cnt ,
elem ,
elem_cntr ,
elem_sec ,
elem_sec_c ,
interlocal ,
pointx ,
pointy ,
pdf_e ,
pdf_es ,
pdf_m ,
pdf_h ,
pdf_e_prz ,
pdf_es_prz ,
pdf_m_prz ,
pdf_h_prz ,
pdf_h9_prz ,
prz_e ,
prz_es ,
prz_m ,
prz_h ,
prz_h9 ,
m2fte_e ,
m2fte_es ,
m2fte_m ,
m2fte_h ,
m2fte_h9 ,
elem_tran ,
midd_tran ,
high_tran ,
int_object AS objectid,
id_key
INTO address_out
FROM p_address
WHERE current = 'Y';
```


Address_XXXXXX_with_2009_2010_school_zones

Shapefile

Description	Spatial	Attributes
-------------	---------	------------

Details for Address_XXXXXX_with_2009_2010_school_zones

Type of object: Feature Class

Number of records: 167936

Attributes

FID

Alias: FID

Data type: OID

Width: 4

Precision: 0

Scale: 0

Definition:

Internal feature number.

Definition Source:

ESRI

Shape

Alias: Shape

Data type: Geometry

Width: 0

Precision: 0

Scale: 0

Definition:

Feature geometry.

Definition Source:

ESRI

HOUSE_NO

Alias: HOUSE_NO

Data type: String

Width: 8

ST_PREFIX

Alias: ST_PREFIX

Data type: String

Width: 7

ST_NAME

Alias: ST_NAME

Data type: String

Width: 24

ST_TYPE

Alias: ST_TYPE
Data type: String
Width: 4

BUILDING

Alias: BUILDING
Data type: String
Width: 4

UNIT

Alias: UNIT
Data type: String
Width: 6

CITY

Alias: CITY
Data type: String
Width: 18

ZIPCODE

Alias: ZIPCODE
Data type: String
Width: 5

PLACE_NAME

Alias: PLACE_NAME
Data type: String
Width: 60

STRUCTURE

Alias: STRUCTURE
Data type: String
Width: 1

ALTKEY

Alias: ALTKEY
Data type: String
Width: 15

USETYPE

Alias: USETYPE
Data type: String
Width: 1

COUNTY

Alias: COUNTY
Data type: String
Width: 7

ADDRESS

Alias: ADDRESS
Data type: String
Width: 49

FULL_ADDRE

Alias: FULL_ADDRE
Data type: String
Width: 59

SAZ

Alias: SAZ
Data type: String
Width: 4

HIGH

Alias: HIGH
Data type: String
Width: 31

HIGH_CNTR

Alias: HIGH_CNTR
Data type: String
Width: 4

MIDDLE

Alias: MIDDLE
Data type: String
Width: 22

MIDDLE_CNT

Alias: MIDDLE_CNT
Data type: String
Width: 4

ELEM

Alias: ELEM
Data type: String
Width: 31

ELEM_CNTR

Alias: ELEM_CNTR
Data type: String
Width: 4

ELEM_SEC

Alias: ELEM_SEC
Data type: String
Width: 31

ELEM_SEC_C

Alias: ELEM_SEC_C
Data type: String
Width: 4

INTERLOCAL

Alias: INTERLOCAL
Data type: String
Width: 6

POINTX

Alias: POINTX
Data type: String
Width: 6

POINTY

Alias: POINTY
Data type: String
Width: 7

PDF_E

Alias: PDF_E
Data type: String
Width: 83

PDF_ES

Alias: PDF_ES
Data type: String
Width: 82

PDF_M

Alias: PDF_M
Data type: String
Width: 69

PDF_H

Alias: PDF_H

Data type: String
Width: 65

PDF_E_PRZ

Alias: PDF_E_PRZ
Data type: String
Width: 4

PDF_ES_PRZ

Alias: PDF_ES_PRZ
Data type: String
Width: 4

PDF_M_PRZ

Alias: PDF_M_PRZ
Data type: String
Width: 76

PDF_H_PRZ

Alias: PDF_H_PRZ
Data type: String
Width: 72

PDF_H9_PRZ

Alias: PDF_H9_PRZ
Data type: String
Width: 72

PRZ_E

Alias: PRZ_E
Data type: String
Width: 1

PRZ_ES

Alias: PRZ_ES
Data type: String
Width: 1

PRZ_M

Alias: PRZ_M
Data type: String
Width: 1

PRZ_H

Alias: PRZ_H
Data type: String

Width: 1

PRZ_H9

Alias: PRZ_H9

Data type: String

Width: 1

M2FTE_E

Alias: M2FTE_E

Data type: String

Width: 1

M2FTE_ES

Alias: M2FTE_ES

Data type: String

Width: 1

M2FTE_M

Alias: M2FTE_M

Data type: String

Width: 1

M2FTE_H

Alias: M2FTE_H

Data type: String

Width: 1

M2FTE_H9

Alias: M2FTE_H9

Data type: String

Width: 1

ELEM_TRAN

Alias: ELEM_TRAN

Data type: String

Width: 1

MIDD_TRAN

Alias: MIDD_TRAN

Data type: String

Width: 1

HIGH_TRAN

Alias: HIGH_TRAN

Data type: String

Width: 1

OBJECTID

Alias: OBJECTID

Data type: Number

Width: 32

Number of decimals: 10

ID_KEY

Alias: ID_KEY

Data type: String

Width: 10

p_address_XXXXXX**Shapefile**

Description	Spatial	Attributes
-------------	---------	------------

Details for p_address_XXXXXX*Type of object:* Feature Class*Number of records:* 184974**Attributes****FID***Alias:* FID*Data type:* OID*Width:* 4*Precision:* 0*Scale:* 0*Definition:*

Internal feature number.

Definition Source:

ESRI

Shape*Alias:* Shape*Data type:* Geometry*Width:* 0*Precision:* 0*Scale:* 0*Definition:*

Feature geometry.

Definition Source:

ESRI

STREETNUMB*Alias:* STREETNUMB*Data type:* String*Width:* 8**PREFIXDIRE***Alias:* PREFIXDIRE*Data type:* String*Width:* 7**PREFIXTYPE***Alias:* PREFIXTYPE*Data type:* String*Width:* 32

STREETNAME

Alias: STREETNAME

Data type: String

Width: 24

SUFFIXTYPE

Alias: SUFFIXTYPE

Data type: String

Width: 4

SUFFIXDIRE

Alias: SUFFIXDIRE

Data type: String

Width: 32

BUILDING

Alias: BUILDING

Data type: String

Width: 4

UNITTYPE

Alias: UNITTYPE

Data type: String

Width: 5

UNITNUMBER

Alias: UNITNUMBER

Data type: String

Width: 6

CITY

Alias: CITY

Data type: String

Width: 18

ZIPCODE

Alias: ZIPCODE

Data type: String

Width: 5

PLACENAME

Alias: PLACENAME

Data type: String

Width: 60

HASSTRUCTU

Alias: HASSTRUCTU
Data type: String
Width: 1

PREALTKEY

Alias: PREALTKEY
Data type: String
Width: 15

COUNTY

Alias: COUNTY
Data type: String
Width: 7

STRUCTUREU

Alias: STRUCTUREU
Data type: String
Width: 1

FULL_ADDRE

Alias: FULL_ADDRE
Data type: String
Width: 59

ADDRESS

Alias: ADDRESS
Data type: String
Width: 49

SAZ

Alias: SAZ
Data type: String
Width: 4

HIGH

Alias: HIGH
Data type: String
Width: 31

HIGH_CNTR

Alias: HIGH_CNTR
Data type: String
Width: 4

MIDDLE

Alias: MIDDLE
Data type: String
Width: 22

MIDDLE_CNT

Alias: MIDDLE_CNT
Data type: String
Width: 4

ELEM

Alias: ELEM
Data type: String
Width: 31

ELEM_CNTR

Alias: ELEM_CNTR
Data type: String
Width: 4

ELEM_SEC

Alias: ELEM_SEC
Data type: String
Width: 31

ELEM_SEC_C

Alias: ELEM_SEC_C
Data type: String
Width: 4

INTERLOCAL

Alias: INTERLOCAL
Data type: String
Width: 6

POINTX

Alias: POINTX
Data type: String
Width: 6

POINTY

Alias: POINTY
Data type: String
Width: 7

PDF_E

Alias: PDF_E

Data type: String
Width: 83

PDF_ES

Alias: PDF_ES
Data type: String
Width: 82

PDF_M

Alias: PDF_M
Data type: String
Width: 69

PDF_H

Alias: PDF_H
Data type: String
Width: 65

PDF_E_PRZ

Alias: PDF_E_PRZ
Data type: String
Width: 4

PDF_ES_PRZ

Alias: PDF_ES_PRZ
Data type: String
Width: 4

PDF_M_PRZ

Alias: PDF_M_PRZ
Data type: String
Width: 76

PDF_H_PRZ

Alias: PDF_H_PRZ
Data type: String
Width: 72

PDF_H9_PRZ

Alias: PDF_H9_PRZ
Data type: String
Width: 72

PRZ_E

Alias: PRZ_E
Data type: String

Width: 1

PRZ_ES

*Alias: PRZ_ES
Data type: String
Width: 1*

PRZ_M

*Alias: PRZ_M
Data type: String
Width: 1*

PRZ_H

*Alias: PRZ_H
Data type: String
Width: 1*

PRZ_H9

*Alias: PRZ_H9
Data type: String
Width: 1*

M2FTE_E

*Alias: M2FTE_E
Data type: String
Width: 1*

M2FTE_ES

*Alias: M2FTE_ES
Data type: String
Width: 1*

M2FTE_M

*Alias: M2FTE_M
Data type: String
Width: 1*

M2FTE_H

*Alias: M2FTE_H
Data type: String
Width: 1*

M2FTE_H9

*Alias: M2FTE_H9
Data type: String
Width: 1*

INT_OBJECT

Alias: INT_OBJECT

Data type: Number

Width: 32

Number of decimals: 10

ELEM_TRAN

Alias: ELEM_TRAN

Data type: String

Width: 1

MIDD_TRAN

Alias: MIDD_TRAN

Data type: String

Width: 1

HIGH_TRAN

Alias: HIGH_TRAN

Data type: String

Width: 1

ADD_DATE

Alias: ADD_DATE

Data type: String

Width: 10

UPDATE_DAT

Alias: UPDATE_DAT

Data type: String

Width: 10

CURRENT

Alias: CURRENT

Data type: String

Width: 1

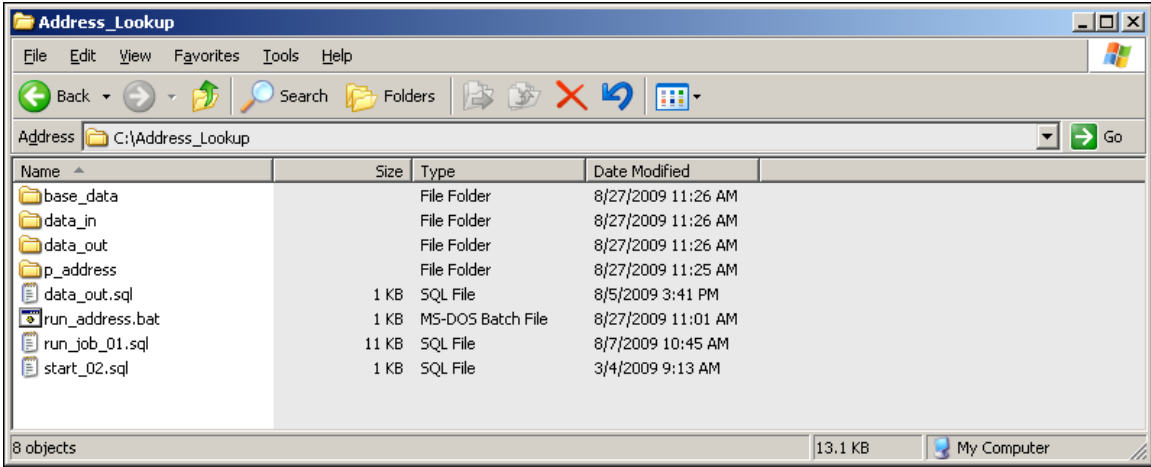
ID_KEY

Alias: ID_KEY

Data type: String

Width: 10

```
                                data_out.sql
-- psql -d zones -f data_out.sql -U postgres --output address.csv
-- data_out.sql
\pset border 1
\pset format unaligned
\pset fieldsep ,
\pset tuples_only
SELECT
streetnumb,
prefixdire,
streetname,
suffixtype,
city,
zipcode,
county ,
saz ,
high_cntr ,
middle_cnt ,
elem_cntr ,
elem_sec_c ,
interlocal ,
pointx ,
pointy ,
prz_e ,
prz_es ,
prz_m ,
prz_h ,
prz_h9 ,
m2fte_e ,
m2fte_es ,
m2fte_m ,
m2fte_h ,
m2fte_h9 ,
elem_tran ,
midd_tran ,
high_tran ,
id_key
FROM p_address
ORDER BY streetname,streetnumb;
```



Name	Size	Type	Date Modified
dbf2sql.pl	3 KB	PL File	10/5/2007 7:57 AM
Elementary_Primary_PRZ.dbf	7 KB	DBF File	8/6/2009 5:44 PM
Elementary_Primary_PRZ.lyr	13 KB	ArcGIS Layer	8/27/2009 12:23 PM
Elementary_Primary_PRZ.prj	1 KB	PRJ File	7/15/2009 2:50 PM
Elementary_Primary_PRZ.sbn	1 KB	SBN File	8/6/2009 5:44 PM
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52 objects

11.4 MB

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