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The Teacher is In!

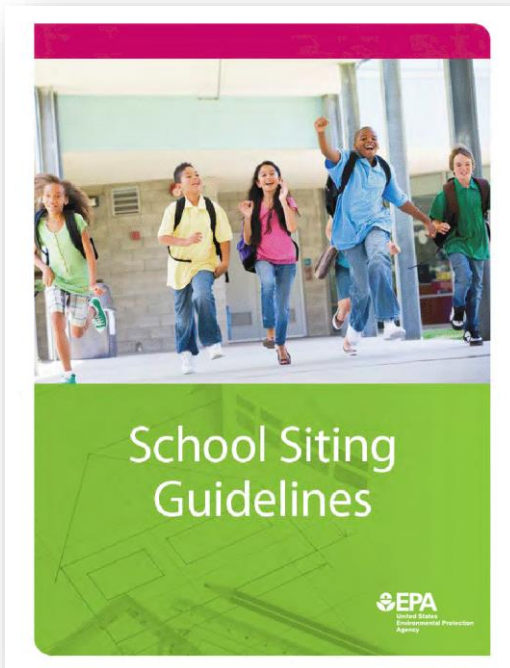
School Siting Tools You Can Use

New Partners for Smart Growth Conference

January 30, 2015

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U.S. EPA School Siting Guidelines



- ▶ Voluntary
- ▶ Directive from Congress to create model guidelines accounting for:
 - ▶ Special vulnerability of children to hazardous substances or pollution exposures
 - ▶ Modes of transportation available to students and staff
 - ▶ The efficient use of energy
 - ▶ The potential use of a school as an emergency shelter

www.epa.gov/schools/siting

These guidelines:

WILL	WILL NOT
Provide a resource	Mandate school location choices
Emphasize the need for public involvement	Provide a detailed guide on how to engage the public
Provide guidance on locating school facilities	Apply retroactively to previous siting decisions
Encourage holistic thinking	Specify cleanup standards, etc. for sites

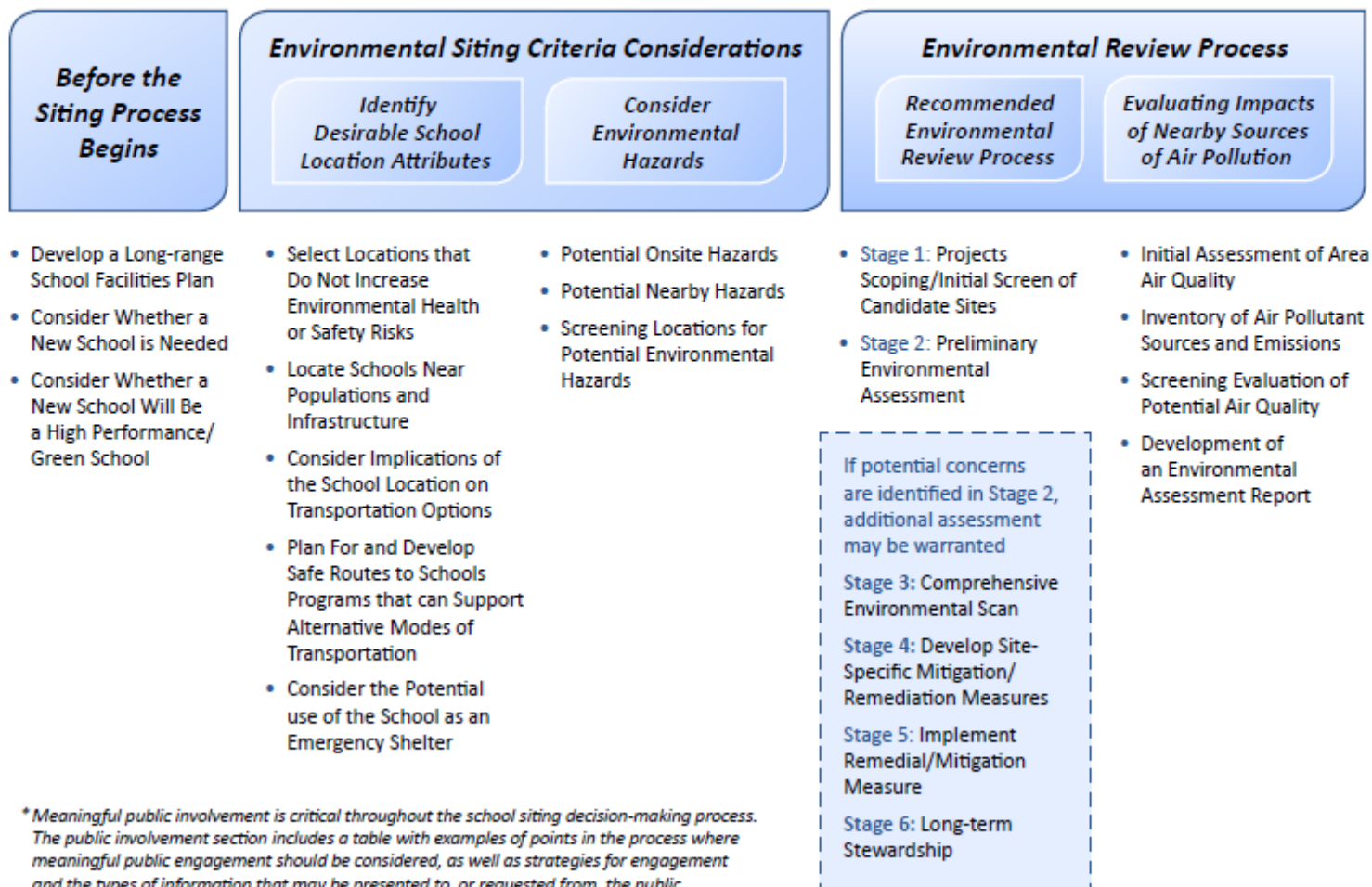
EPA School Siting Guidelines



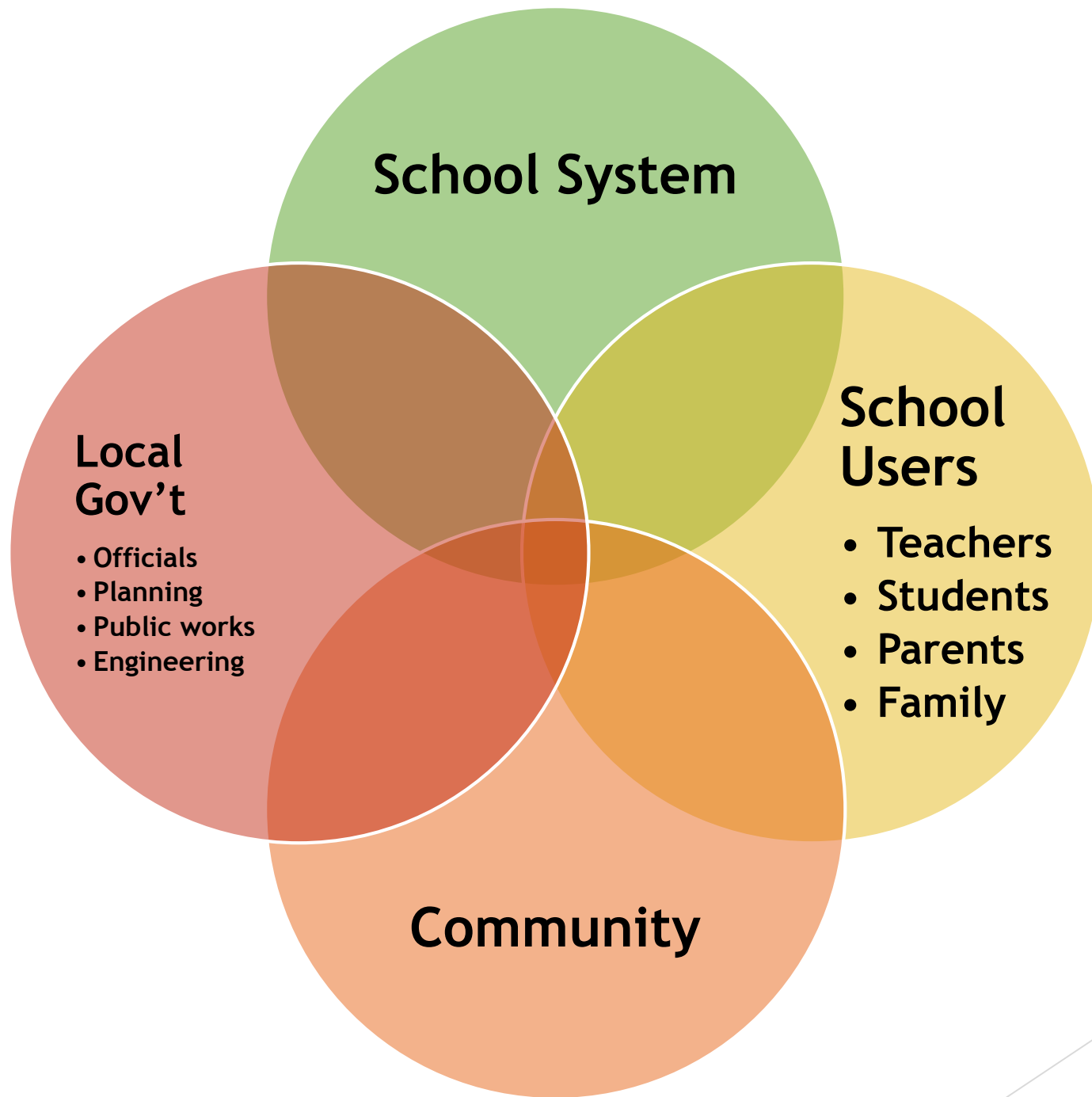
Use EPA's Smart School Planning Tool to implement these steps. Visit www.epa.gov/smarthgrowth/schools.htm in April 2015 for details.



Meaningful Public Involvement*



* Meaningful public involvement is critical throughout the school siting decision-making process. The public involvement section includes a table with examples of points in the process where meaningful public engagement should be considered, as well as strategies for engagement and the types of information that may be presented to, or requested from, the public.



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Katherine Moore, AICP

Georgia Conservancy

School siting training modules and
guides

Resources

Professional Training

- One-hour training and user's guide
 - Frames issues for decision makers
- Three-hour training and user's guide with supplemental break-out exercises
 - Detailed review of issues
 - Interactive exercises

Parent/Community Training

- 30 minutes
- Layman's terms
- Frames issues from community's view

Technical Services

www.georgiaconservancy.org/schoolsiting

A Georgia where people and the environment thrive

Georgia CONSERVANCY

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Programs

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Land Conservation
► Sustainable Growth – Recent News
Coastal Georgia
Membership
Stewardship Trips

School Siting

Old School, New School, This Place, That Place

An introduction to utilizing the EPA School Siting Guidelines

Georgia CONSERVANCY Mothers & Others for Clean Air GEORGIA

The construction of new schools, as well as decisions regarding the closing of existing schools, influences the health, economic well-being, and the quality of life for the entire community. By taking into account the special vulnerabilities of children and their health, the U.S. Environmental Protection Agency (EPA), working with a team of experts, released in October 2011 the [School Siting Guidelines](#). The *School Siting Guidelines* is an educational tool to assist local school districts and community members in evaluating health and environmental factors to make the best possible school siting decisions.

After the *Guidelines* were released, three Georgia non-profit organizations –The Georgia Conservancy, U.S. Green Building Council, Georgia Chapter, and Mothers & Others for Clean Air – recognized that school siting decision-makers may need training on the guidelines and a hands-on way of applying the principles of the guidelines to real-world situations. In 2012, the team developed a training program based on the *School Siting Guidelines* called, "Old School, New School, This Place, That Place" to guide school board members, administrators and personnel, planners, and other decision-makers through the children's health and environmental impacts that should be considered when making difficult decisions regarding school siting, school closure, or school renovations. The

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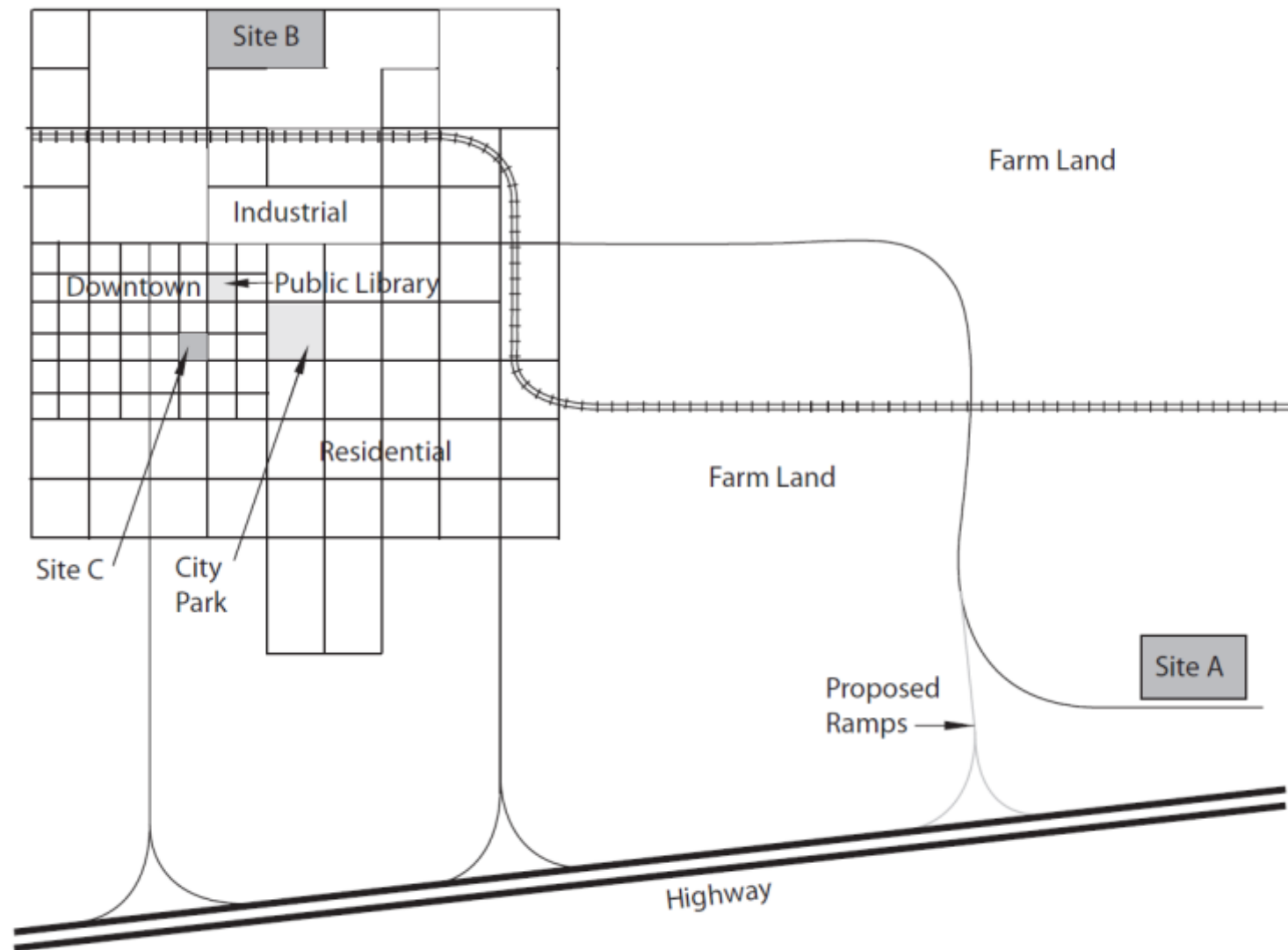


Case Study 1



Edgewater elementary

Exercise 2



Site Evaluation

Information Provided

- ▶ General Description
- ▶ Size
- ▶ Construction Costs
- ▶ Roads/Parking
- ▶ Water/Sewer availability
- ▶ Adjacent land uses
- ▶ Walkability
- ▶ Annual bus costs
- ▶ Demographics

Discussion Points

- ▶ Pros
- ▶ Cons
- ▶ Consequences
- ▶ Mitigation Strategies

GROUP EXERCISE 2

Old School, New School, This Place, That Place:
An Introduction to Utilizing the EPA School Siting Guidelines

	Site A	Site B	Site C
General description	Facility would include a state-of-the-art theater that could be used for community productions.	One-story administrative building, located in a former industrial area. The current owner, a pesticide company, will donate it and the surrounding land.	The existing school (c. 1927) sits on a small lot downtown and is surrounded on three sides by houses and a former gas station & drycleaners on the fourth. Demolition of the original building is not an option.
Size	50 acres to be donated by a developer with an approved new housing development	The entire lot is 10 acres in size but sits across from Henley Park, a 15-acre recreational park owned by the city but rarely used.	To build a new wing and ball fields, the district would need to either acquire 8 neighboring houses that were also built in the 1920s or purchase and reuse the former brownfields site. Either option creates a 13 acre site.
Construction cost	\$30 million	Renovation: \$16 M Abatement of hazards: \$10 M Total construction costs = \$26 M	\$35 million includes renovation of existing school, demo & abatement of hazards, plus construction of new wing and ball field
Roads/Parking	A road to the school would need to be constructed, along with a new highway exit. The city is reluctant to fund this construction and noted that the comprehensive plan does not support a school here.	The site could easily accommodate parking for teachers and 5 visitors.	Parking would remain limited and visitors would still have to park several blocks away.
Public water and sewer	None. The developer is waiting to finalize his subdivision plans until after extension of public water and sewer for the school.	Readily available	Readily available
Adjacent land uses	No zoning is in place to prohibit a concentrated animal feeding operation (CAFO) on the neighboring farm.	Renovation of this building could spur revitalization of the central business district which is within walking distance.	The directors of the downtown library and local YMCA are reluctant to share any space.
Walkability	Currently no students could walk or bike to the location. No sidewalks are planned (or required) for the housing development	Approximately 50 kids (within 1 mile) could walk or bike to this location on sidewalks that need to be repaired. Also more safe crossings are needed.	Approximately 75 kids (within 1 mile) walk or bike to this school along tree-lined sidewalks.
Annual bus transportation costs	Bus transportation costs for the district and for the state would increase by approximately 40%.	Bus transportation costs for the district would not vary greatly from current cost of \$100,000.	Bus transportation costs would not change.
Demographics	While the ethnic make-up of the student population wouldn't change, the lowest income students would have to travel about 30 minutes more each way each day.	The nearest neighborhood is 5 blocks away and has the lowest income levels in the city.	Approximately 75% of the neighborhood population is Latino and African-American. Income levels are low and about 50% of the children receive Free & Reduced Lunch.

Adapted from an exercise developed by the National Trust for Historic Preservation

Using the guidelines

Ideas from Georgia conservancy workshops

Billings, Montana

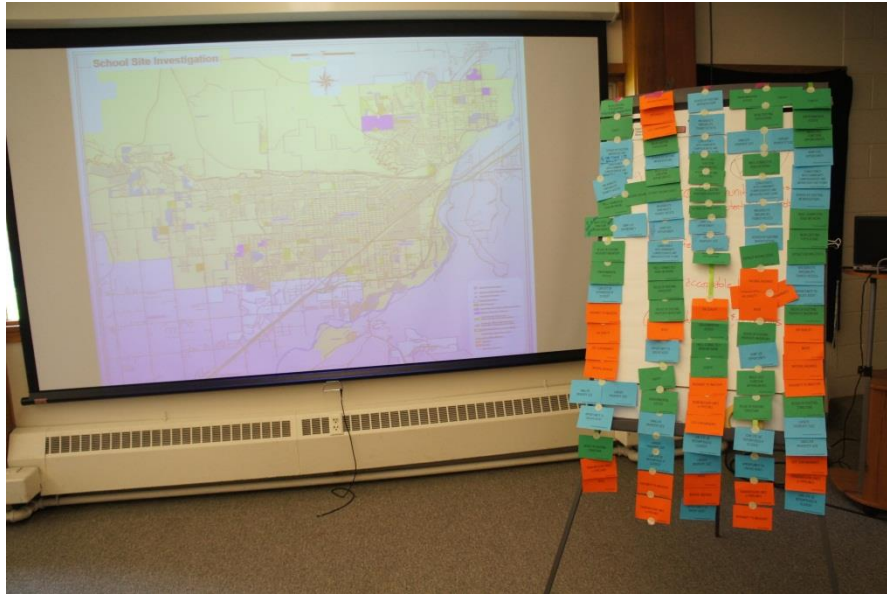
**School board actively selecting
2 MS sites**

One four-hour workshop held to
address:

- Value of community-centered schools
- School Siting Guidelines, contents and tools
- Prioritize site evaluation categories
- Address post-decision considerations
- Considerations for the next siting process









NEAR EXISTING
POPULATIONS
+ FUTURE POPULATIONS

NATURAL HAZARDS

AIR QUALITY

SITE CONTAMINANTS

SERVED BY EXISTING
INFRASTRUCTURE

ENVIRONMENTAL
JUSTICE

EQUITY

EQUITY

EQUITY

WALKABILITY,
BIKEABILITY,
TRANSIT ACCESS

NEAR EXISTING
POPULATIONS

ENVIRONMENTAL
JUSTICE

SERVED BY EXISTING
INFRASTRUCTURE
*By THE TIME ITS
BUILT*
CONSISTENCY
WITH COMMUNITY
COMPREHENSIVE AND
INFRASTRUCTURE PLANS

NEAR EXISTING
POPULATIONS

CONSISTENCY
WITH COMMUNITY
COMPREHENSIVE AND
INFRASTRUCTURE PLANS

SMALLER
PROPERTY SIZE

LARGER
PROPERTY SIZE

MULTI-USE/
FUNCTION
OPPORTUNITIES

SERVED BY EXISTING
INFRASTRUCTURE

MULTI-USE/
FUNCTION
OPPORTUNITIES
REUSE OF EXISTING
STRUCTURE

WELL-CONNECTED
ROAD NETWORK

JOINT USE
OPPORTUNITY

WALKABILITY,
BIKEABILITY,
TRANSIT ACCESS

MULTI-USE/
FUNCTION
OPPORTUNITIES

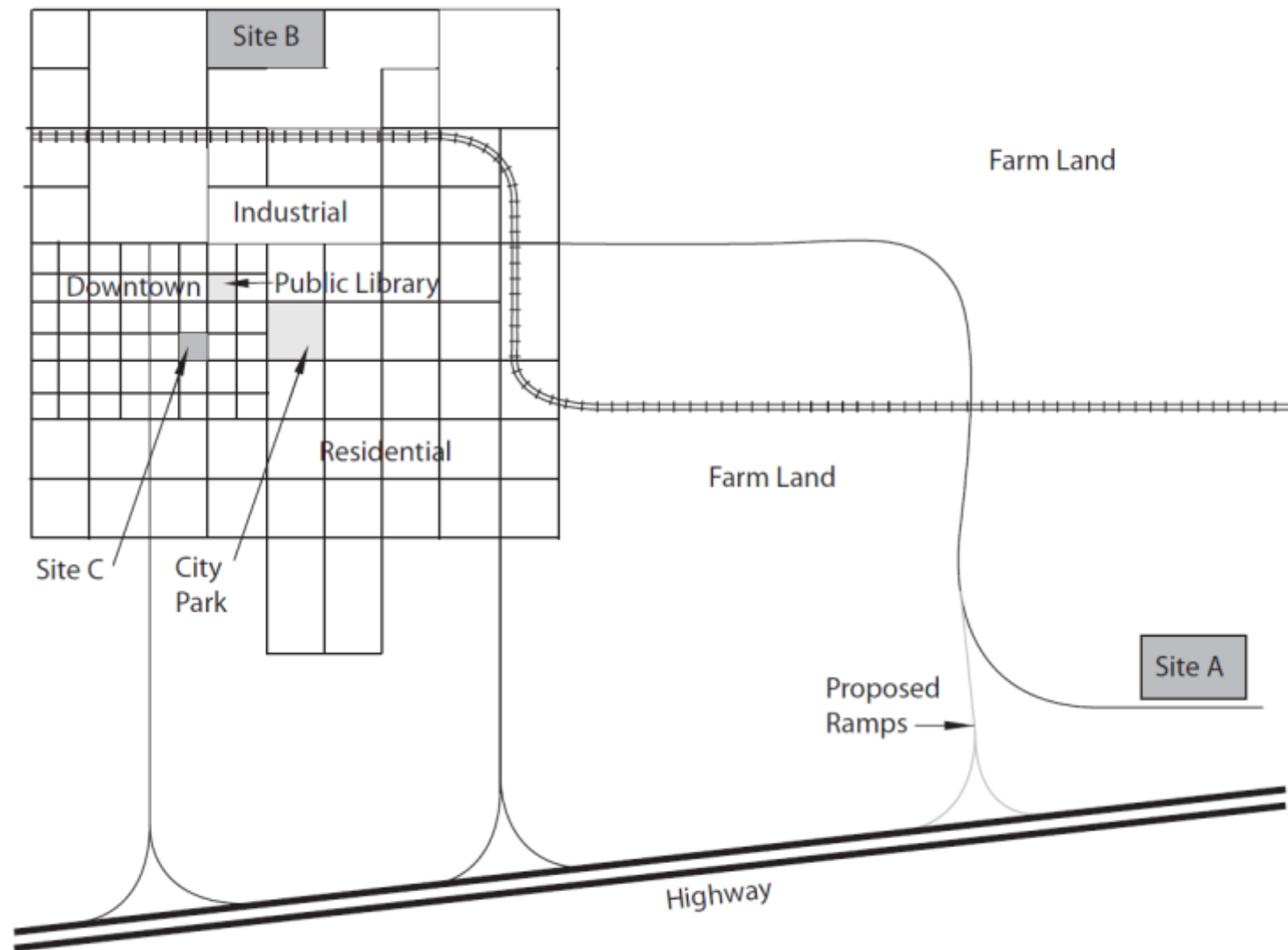
REUSE OF EXISTING
PROPERTY INVENTORY

CONSISTENCY
WITH COMMUNITY

CONSISTENCY
WITH COMMUNITY
COMPREHENSIVE AND
INFRASTRUCTURE PLANS

DISTRICT BUS
DISTRICT BUSING COSTS

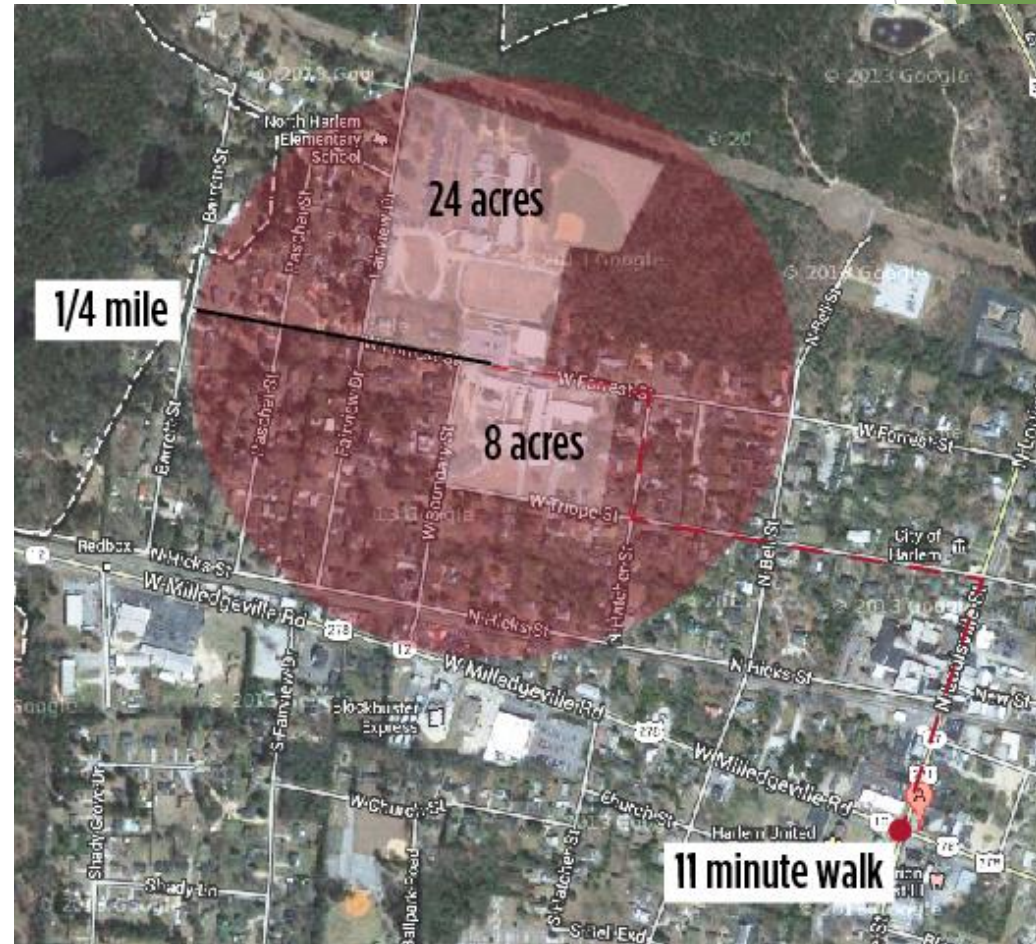
WELL-CONNECTED
ROAD NETWORK

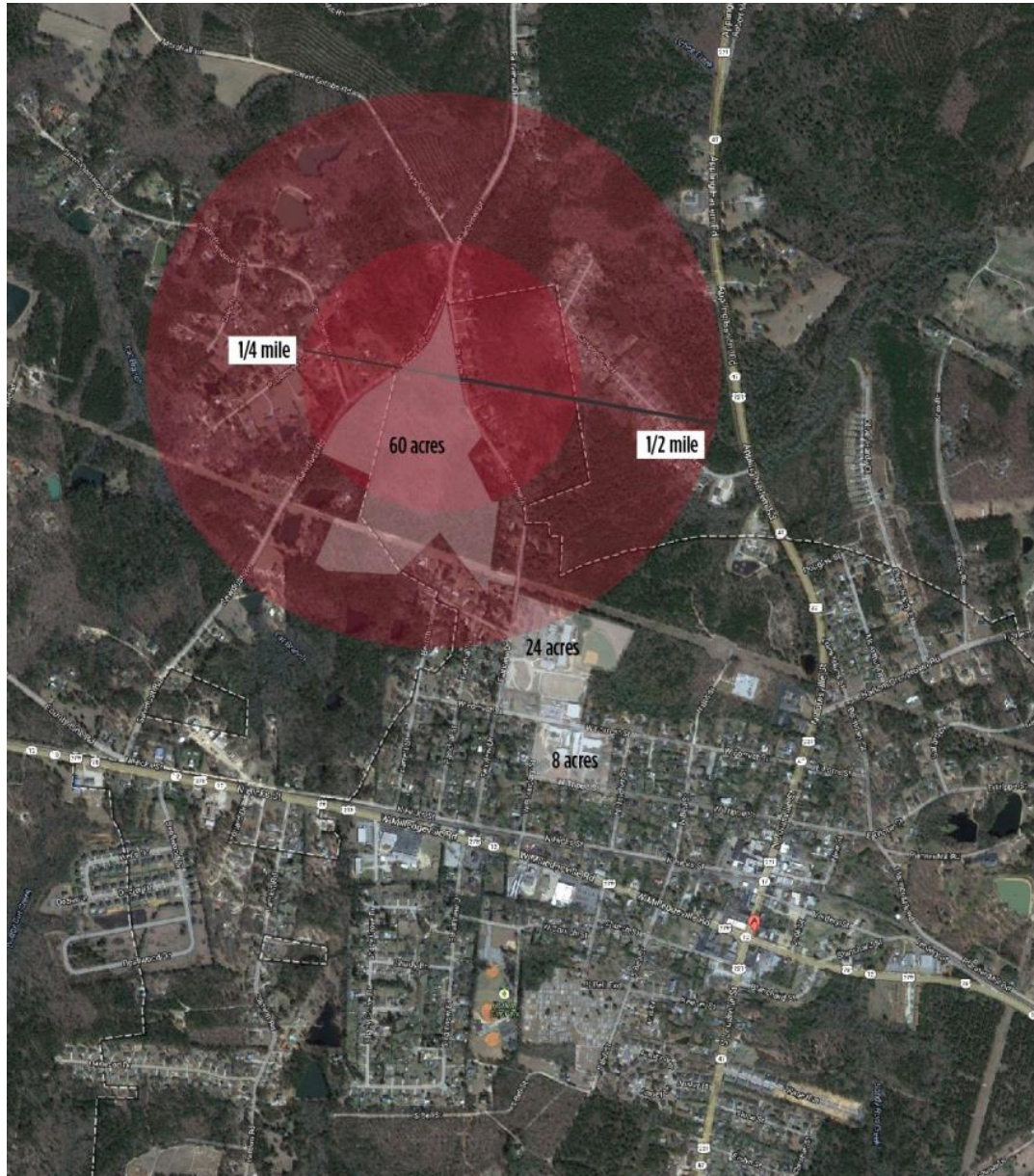


Harlem, Georgia

City leadership faced with relocation of in town ES & MS


- Introduction to School Siting workshop with Mayor, Regional Commission, other stakeholders
- Two-hour workshop during DCA retreat
- Provided visuals to aid in discussions with school board









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Bill Michaud
SRA International, Inc.

EPA's Smart School Siting Tool

Overview

- ▶ Background
- ▶ Description of the Smart School Siting Tool
 - ▶ The Assessment & Planning Workbook
 - ▶ The Site Comparison Workbook
- ▶ Completing the Tool
- ▶ Demonstration

Description

Two Stand-Alone Parts

► Assessment and Planning Workbook

- *Purpose:* To help communities understand how well the school siting process is coordinated with land use and other community planning processes.
- *Design:*
 - Three assessment sections: Plans & Codes, Site Selection Criteria, and Siting Process
 - Results: Assessment Summary ➡ Set Priorities worksheet ➡ Develop Action Plan worksheet

► Site Comparison Workbook

- *Purpose:* To help communities compare school siting alternatives, including renovation, expansion, and new construction, and help support the broader school siting process.
- *Design:*
 - One workbook per site
 - Twenty-five questions and two cost calculator worksheets
 - Site-specific Summary and Detailed Summary reports

Description:

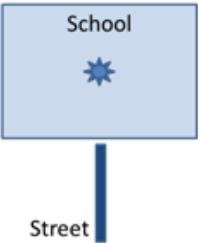
User-Friendly Design

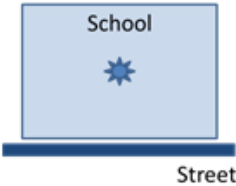
- MS Excel platform using survey-based interface

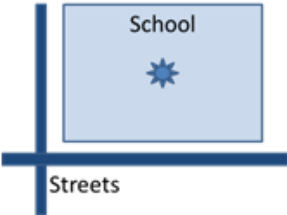
Has a long-range school facilities plan been developed to establish school needs?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Does the long-range school facilities plan consider district-wide needs?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

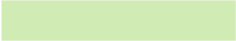
1A.1 Long-range School Facilities Master Plan	Baseline Planning	<input checked="" type="radio"/>
	Enhanced Coordination	<input type="radio"/>

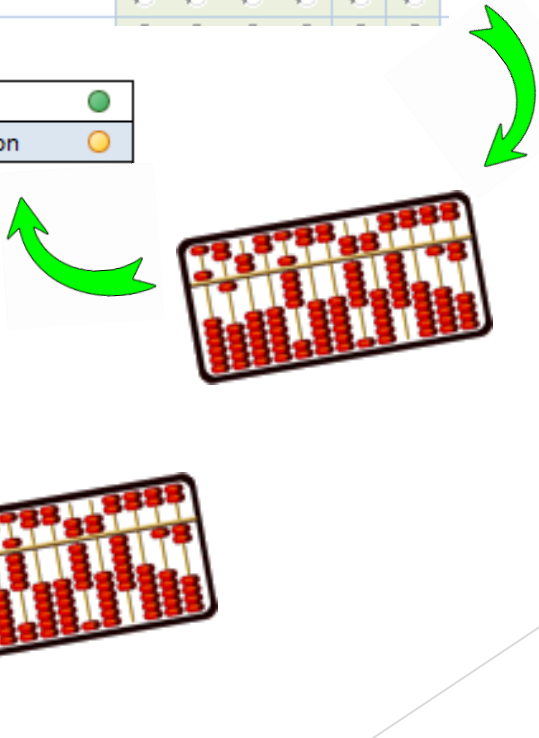
Select the scenario that most closely represents the school site:

☐ One street, dead-ending at the school


☐ One street, adjacent to the school site


☐ Two or more streets, adjacent to the school site


Score (Question 19): 



Overview and Information Needs

Assessment & Planning Workbook

Workbook Section	Information Needs: Familiarity with...
Plans and codes	<p>Familiarity with/access to...</p> <ul style="list-style-type: none">• School system plans:<ul style="list-style-type: none">• Long-range facilities plan• Capital improvements plan• Community plans and codes:<ul style="list-style-type: none">• Comprehensive plan• Zoning and building codes• Local and regional transportation plans• Community capital improvement plan
School siting criteria	Existing school siting criteria
Site selection process	Process used to select school sites

Overview and Information Needs

Site Comparison Workbook

Workbook Section	Information Needs
Description of school need and site	<ul style="list-style-type: none">• District and site identifiers• Grades to be served, capacity
Proximity to students and population	<ul style="list-style-type: none">• District demographics• Geographic information• Neighborhood demographics
Location in the community	<ul style="list-style-type: none">• Community development plans• Infrastructure
Site characteristics	<ul style="list-style-type: none">• Potential neighborhood impacts• Shared use opportunities
Connectivity with neighborhood	<ul style="list-style-type: none">• Neighborhood street network
Bike and pedestrian accessibility	<ul style="list-style-type: none">• Condition and safety of pedestrian and bike networks/facilities
Cost calculators	<ul style="list-style-type: none">• Planning-level capital cost estimates (by source of funds)• Planning-level O&M cost estimates (by who pays)

Completing the Tool

- ▶ The tool is intended to foster collaborative, coordinated planning and site selection processes
- ▶ The tool will be most effective if it is completed with input from:
 - ▶ The local school planning agency - e.g., administrators and facilities staff
 - ▶ Local government staff - e.g., planning, land use, public works, transportation)
- ▶ The workbooks are independent
 - ▶ The Assessment & Planning Workbook could be completed once or on an ongoing basis
 - ▶ The Site Comparison Workbook could be used for different siting projects over time
- ▶ The tools are designed to be practical:
 - ▶ Users can fill in what they can, gather additional information, fill in some more, etc.
 - ▶ Most questions rely on information that is relatively easy to gather
 - ▶ More complex questions (e.g., requiring demographic information in a selected area around a potential site) provide options and detailed guidance

Demonstration Assessment & Planning Tool

Demonstration

Site Comparison Tool

The background features abstract, overlapping green geometric shapes, primarily triangles and polygons, in various shades of green, creating a modern and dynamic visual effect.

Nick Salmon, REFP
CTA Architects Engineers, MT
EPA Smart School Siting Tool Tester

How this fits into Comprehensive Facility Planning

(prepare)

ASSESS

EXPLORE

APPLY

(report)

Topics & Issues Raised

Demographic Profiles/Housing Diversity

Population Distribution/Urban Growth Areas

Optimal School Size

Building Condition/Capacity

What I learned while beta testing

Q2: Loss/gain of enrollment

Q8: Bonus for sites that don't require new roads

Q20: Site Security

Three Stories

Hamilton

Franklin

Dickinson/CS Porter

Hamilton

Urban/Suburban

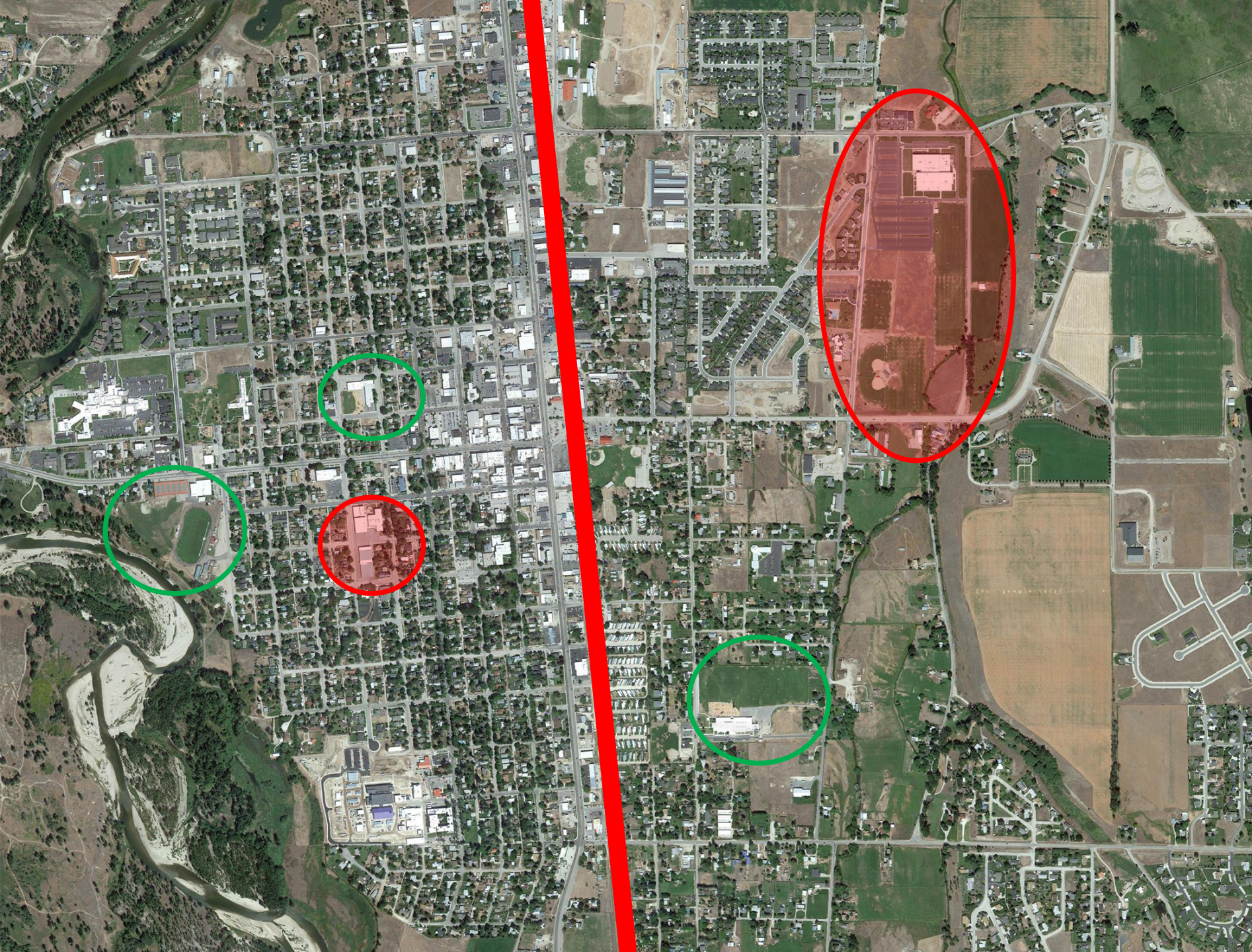
Add Grade 5 & Restore Middle School
Bitterroot College Downtown Presence

Downtown Impacts

100 additional Middle School Students

Transform Historic Middle School

Bitterroot College Downtown Presence



Right Location/Wrong School

School Expanded 5 times in 92 years

Rapidly Changing/Expanding Neighborhood

Use of Existing Street Network



Franklin Elementary
School

10TH

11TH

JOHNSON

GRANT

GARFIELD

RM2-7

RM1-45



Dickinson/CS Porter

Swap Adult Education & Middle School

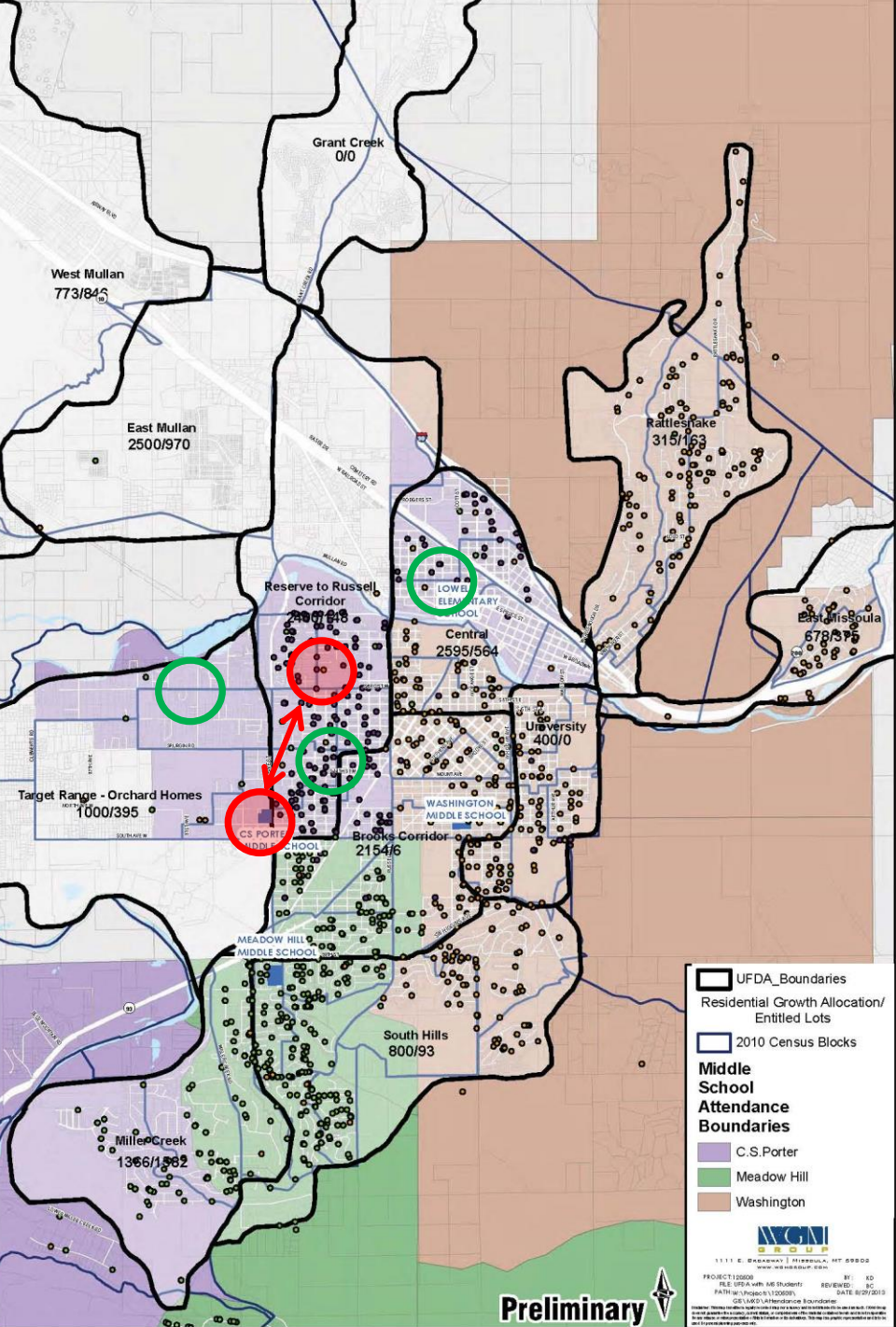
7 lanes of 45 MPH Traffic

7 Students West of Reserve/21 Students within ¼ mile

Existing Bike/Pedestrian Network

Cost Savings

Economic Diversity Challenge



Swap Schools



RMH

NORTH

CITY SD#2

26TH

Z.D. 12

1.00 Acres
43,757 SF

0.30 Acres
13,084 SF

RT2.7

C1-4/ROW

KENT

Z.D. 12

CS Porter
Middle School

6.16 Acres
268,336 SF

RESERVE

C1-4

CENTRAL



RT5.4

CAROL ANN

RT10

CURTIS

BULEN

RM2

R5.4

Emma Dickinson School

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THANKS FOR JOINING US!