Mapping Knowledge Tift County School District

Tift County, Georgia

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Tift County

- Population 40,000
- Students 3,700
- 12 Campuses
 - -Pre-K (1)
 - Elementary Split(8)
 - -Middle (1)
 - 9th Grade Academy (1)
 - -High (1)



Background Information

• Year prior to this project we did analysis of school locations and student addresses for redistricting purposes with the Assistant Superintendent of Operations.

 He came back a year later and said if we can help him with redistricting then we can help map sewer cleanouts.

Map Book Plan

- GPS Utility Features
 - Sub Meter accuracy with Trimble Pro XR Unit
- Scan School Blueprints Saved as .TIF
 - Inexpensive at local copy/blueprint store
- Use City of Tifton's Aerial Photography
 - -1" = 600'



Step One

• GPS 1-2 days per school. Accompanied by school maintenance worker entire time. The points included Electric, Gas, Sewer, Water Items (39 different feature types). Process points and export into a shapefile.

Get blueprints scanned.

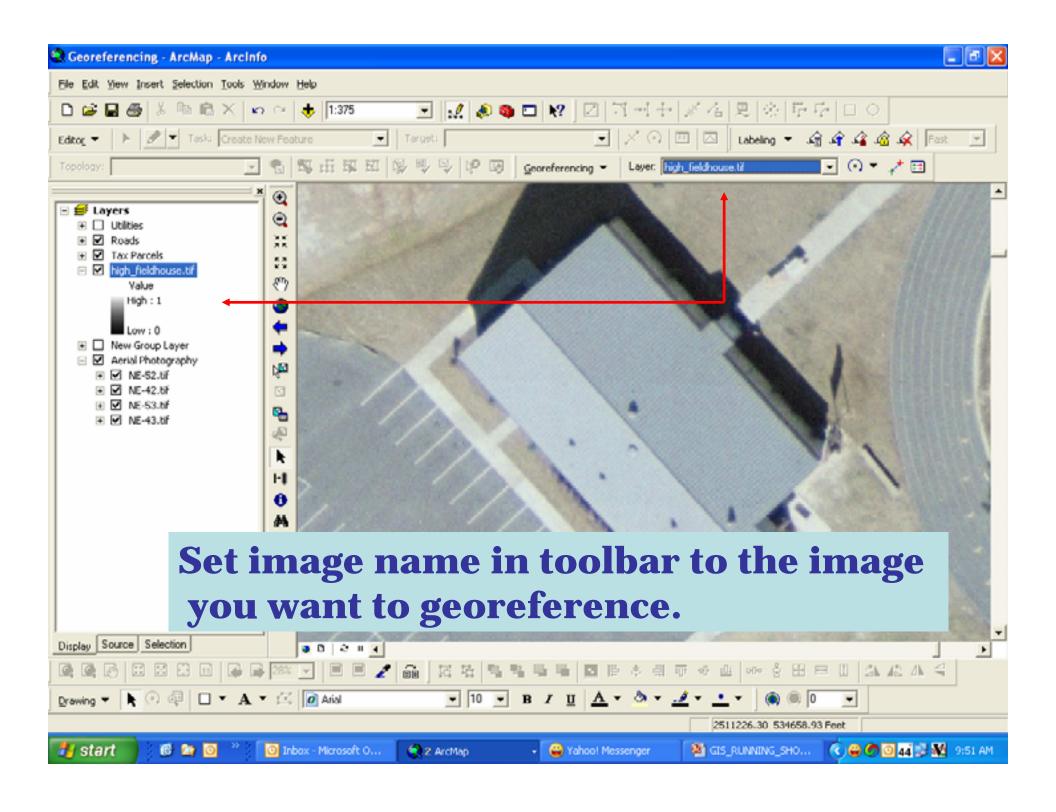
Step Two

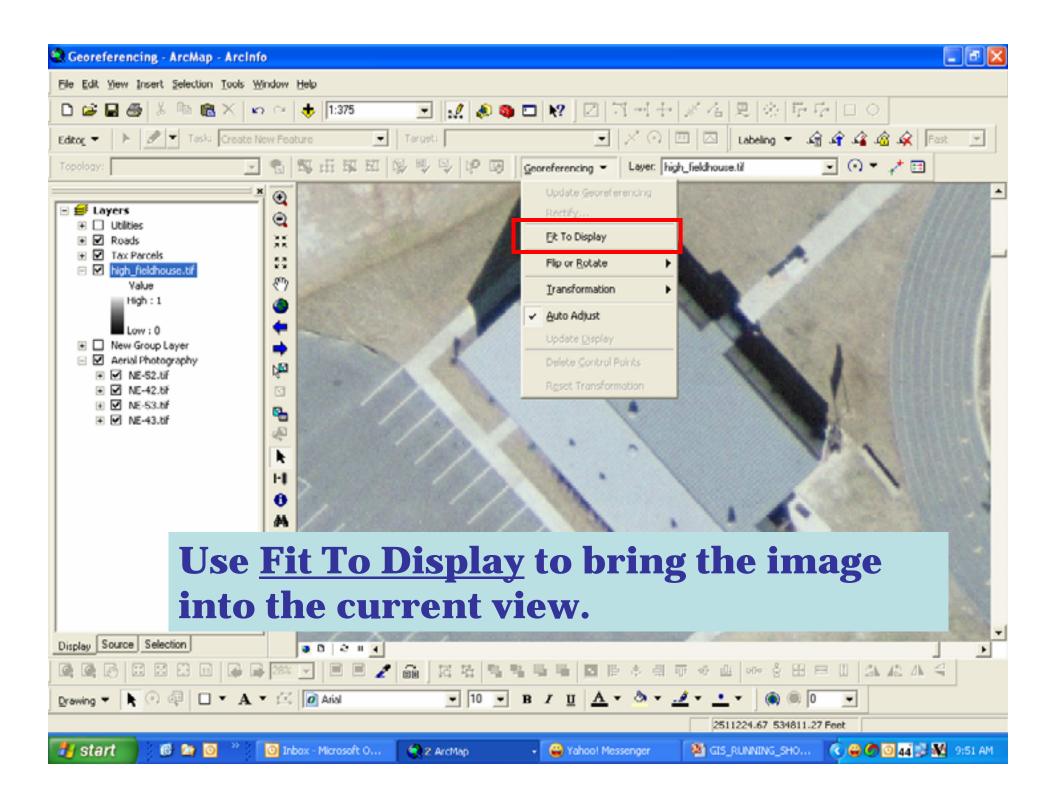
• Digitize any water, sewer and gas lines found on blueprints.

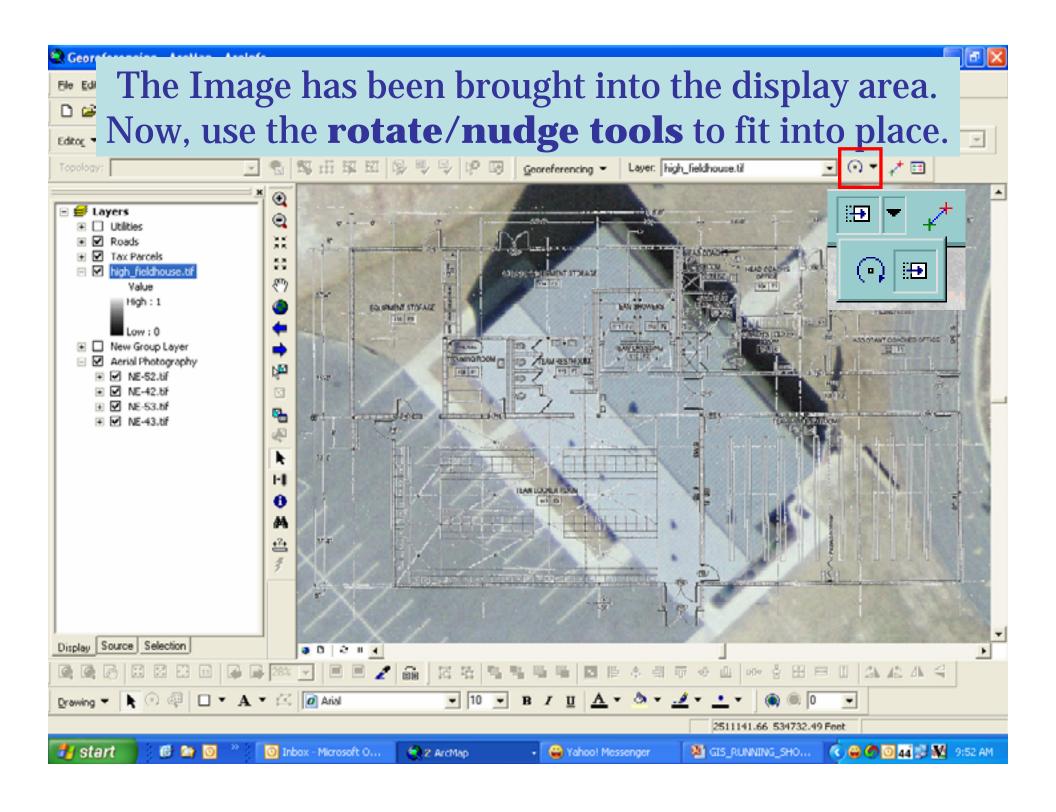
• Georeference scanned blueprints.

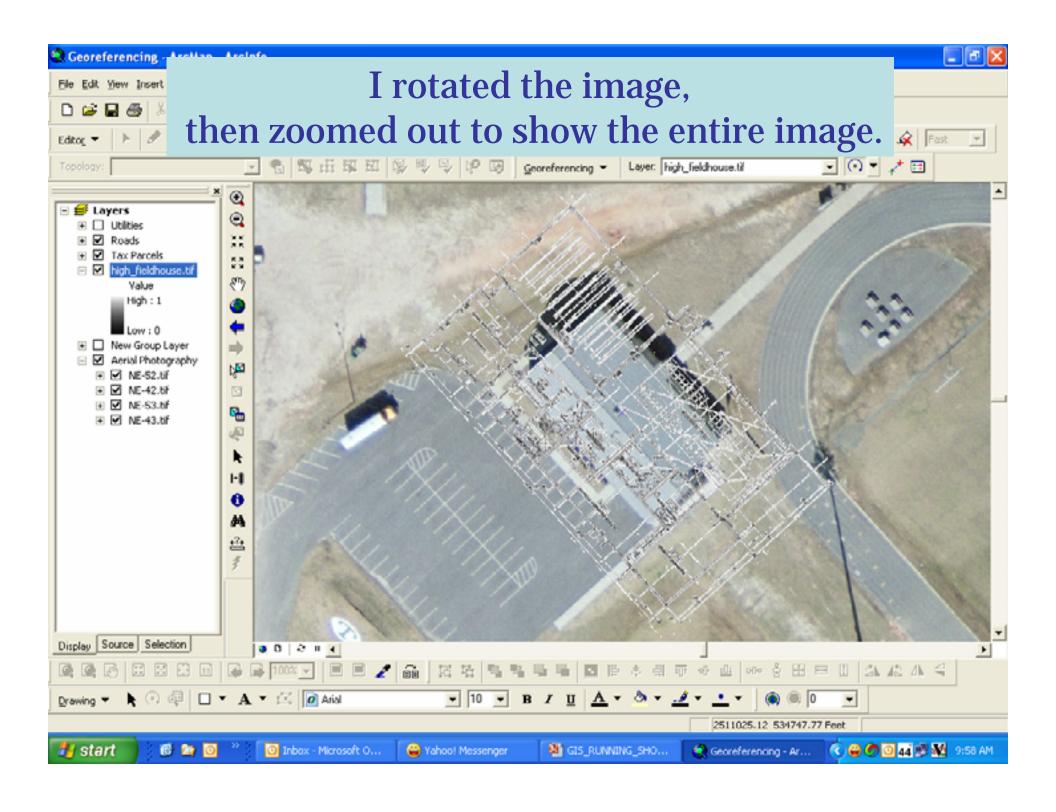
Georeferencing Process

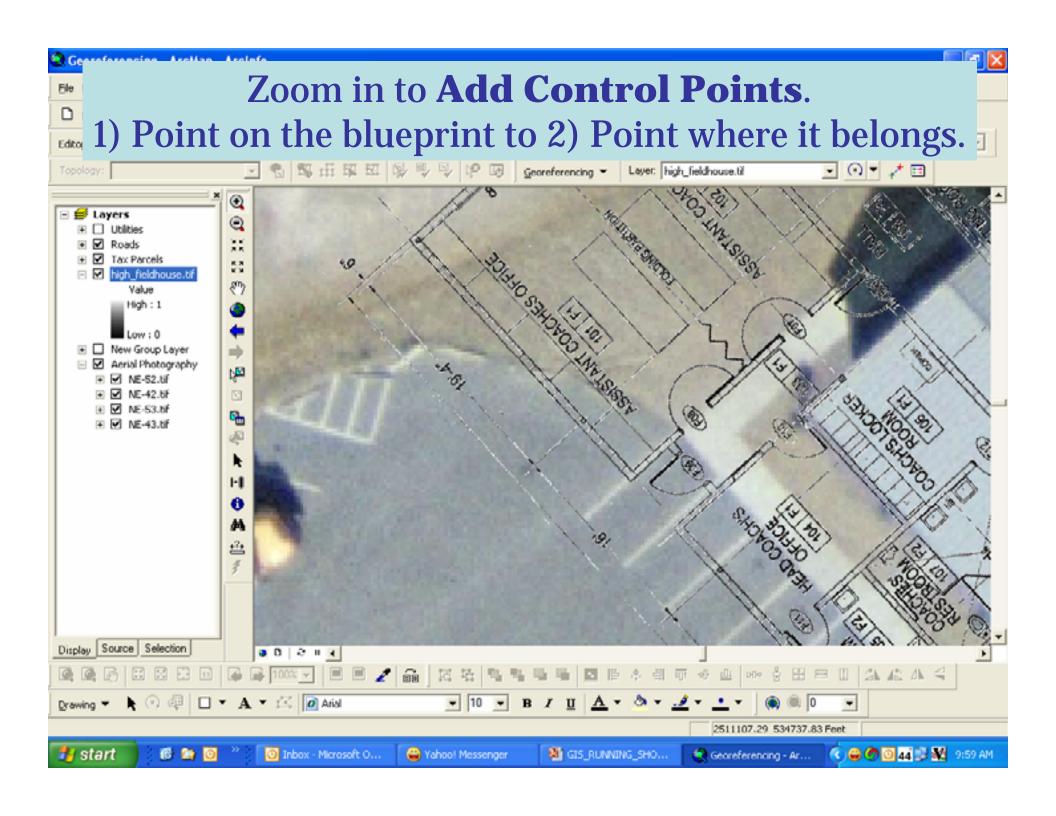
- 1. Blueprints are saved in TIF file. Load TIF into ArcMap.
- 2. Add the Georeferencing toolbar.
- 3. Fit TIF to display. Rotate/Nudge to position.
- 4. Zoom In & Add Control Points.
- 5. Rectify/Save (This creates a .tfw or "World File").

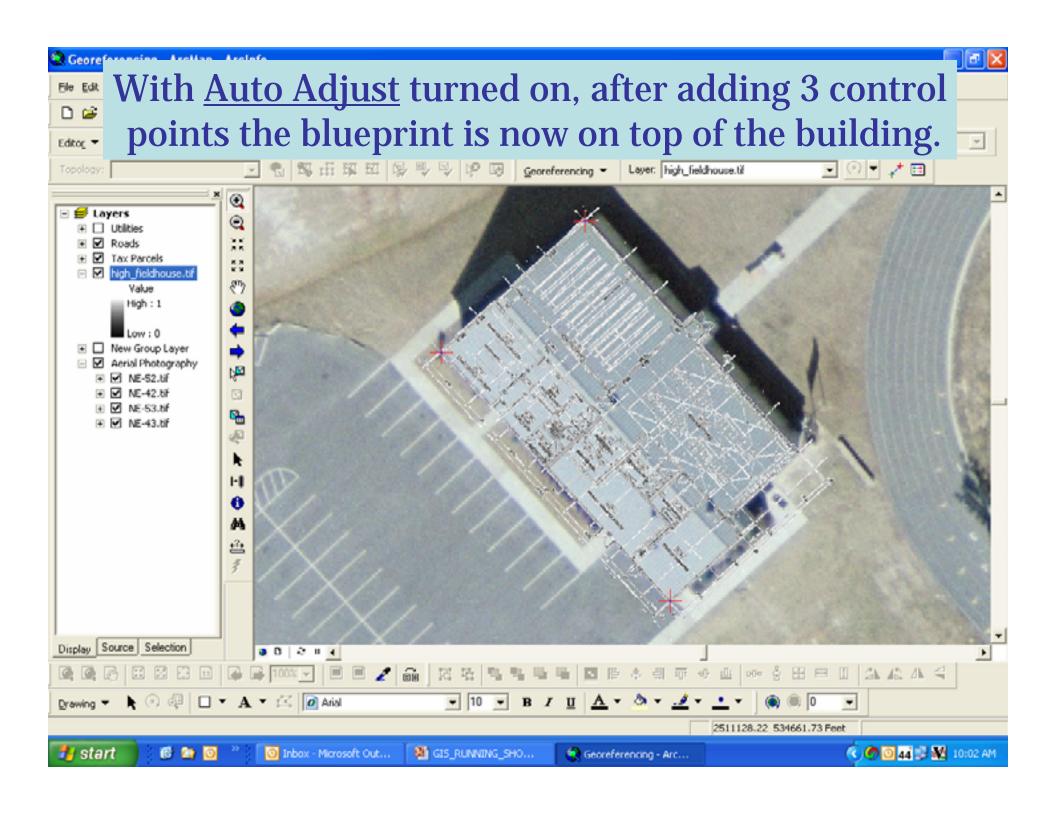


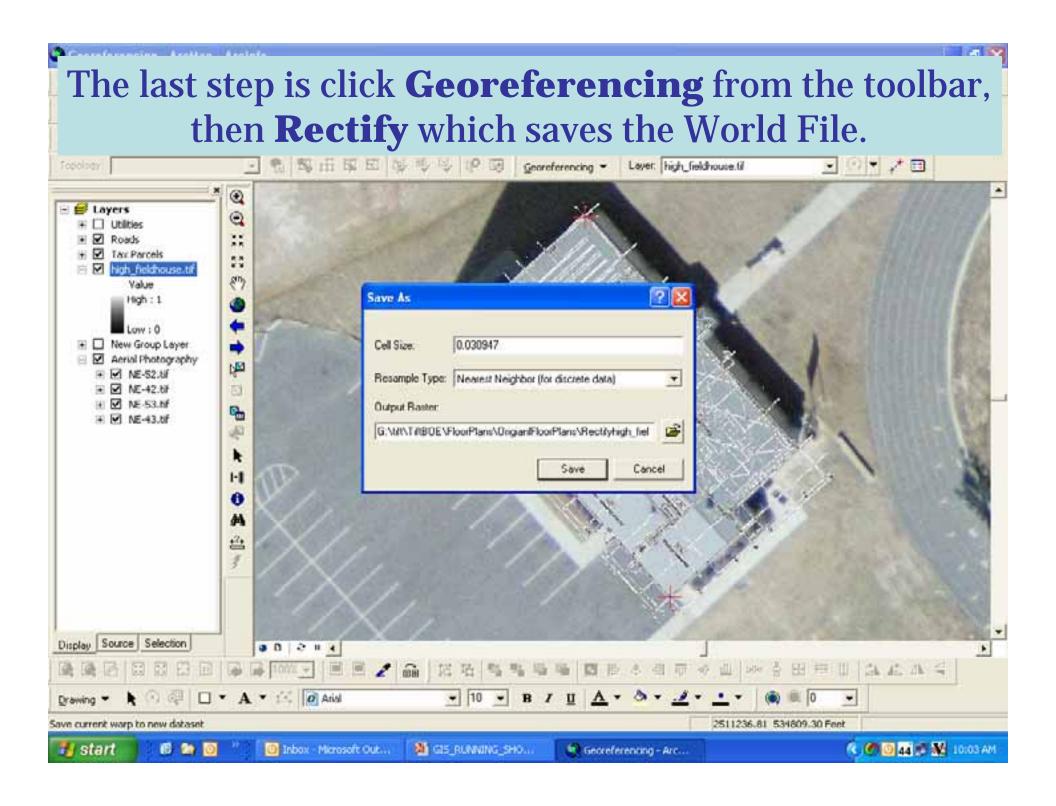












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Northside Primary School

Northside Primary School 1815 Chestnut Ave Tifton, GA 31794 (229) 386-6535

Revision to Map Book

- Heads up digitized fiber lines.
- Add propane tank points.

GEMA (Georgia Emergency Management Agency) saw map book and inquired about points for emergency responders.

Add Alarm Panels, Fire Extinguishers, Fire Sprinkler Controls, Master Keys Location, Master Phone, Roof Access Points, Video Camera Monitoring Areas



Location	Page	Legend			
			Acid Tank Cleanout	=	Imgation Timer
Annie Belle Clark Primary School	2	$3 \cup 10$	Acid Waste Tank	24	Irrigation Valve
Charles Spencer Elementary School	10		Backflow Preventor	*	Ph Sys Main Entranc
Eighth St. Middle School	18	1	Cable TV	4	Phone
G.O. Bailey Primary School	32	•	Chemical Trap	0	Propane Gas Tank
			Comm Pull Box E Main Service Switch	*	Sat Cab Entrance
J.T. Reddick Elementary School	37		Electric Junction Box	-	Satellite Equipment Septic Tank
Len Lastinger Primary School	43	8	Electric Pull Box		Sewer Catch Basin
Matt Wilson Elementary School	49		Electric Serv Meter		Sewer Cleanout
Northeast Campus	57	(3)	Electric Transformer	(0)	Sewer Manhole
Northside Primary School	64	•	FD Connection		Sewer Storm Drain
Omega School	70	8	Fiber Ent/Exit Point	-	Spigot
	77		Fiber Sleeve		Storm Drain Cleanou
Tift County High School		•	Fire Hydrant	C	Telephone Pull Box
Tift County Pre-K Center	91		Gas Main		Telephone Pole
Central Office of BOE	94		Gas Valve Generator	10	Water Meter Water Valve
		00	Grease Trap	0	Water Well
			Grease Trap Cleanout	_	- Water Lines
				_	- Sewer Lines
			Hote: Line Size 5. Material type are notest	_	- Ges Lines
			un maus if known.		Fiber Lines