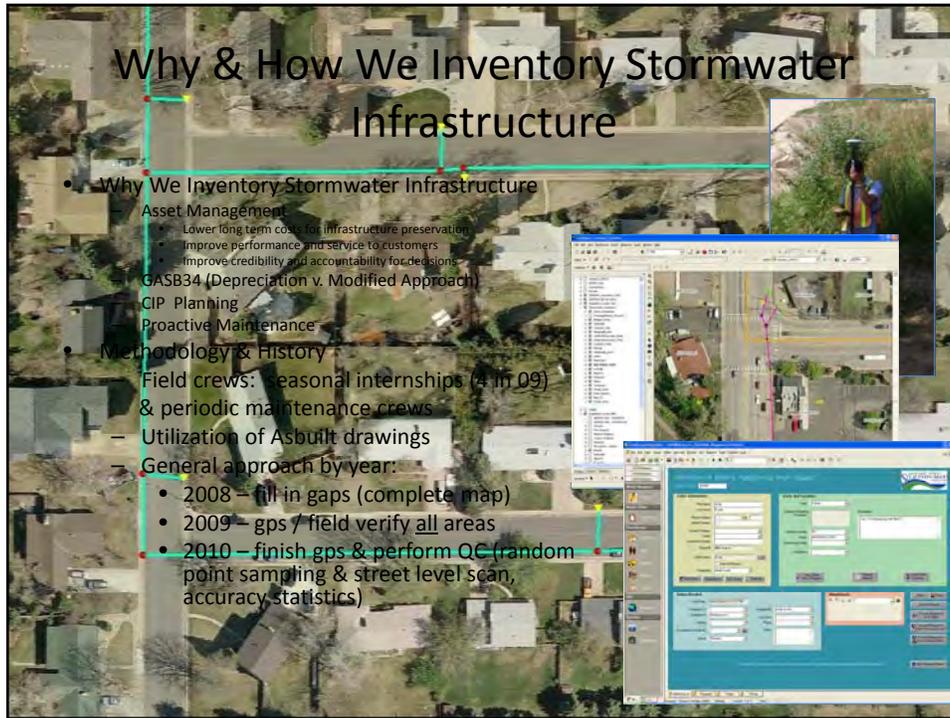




Why & How We Inventory Stormwater Infrastructure

- Why We Inventory Stormwater Infrastructure
 - Asset Management
 - Lower long term costs for infrastructure preservation
 - Improve performance and service to customers
 - Improve credibility and accountability for decisions
 - GASB34 (Depreciation v. Modified Approach)
 - CIP Planning
 - Proactive Maintenance
- Methodology & History
 - Field crews: seasonal internships (4 in 09) & periodic maintenance crews
 - Utilization of Asbuilt drawings
 - General approach by year:
 - 2008 – fill in gaps (complete map)
 - 2009 – gps / field verify all areas
 - 2010 – finish gps & perform QC (random point sampling & street level scan, accuracy statistics)

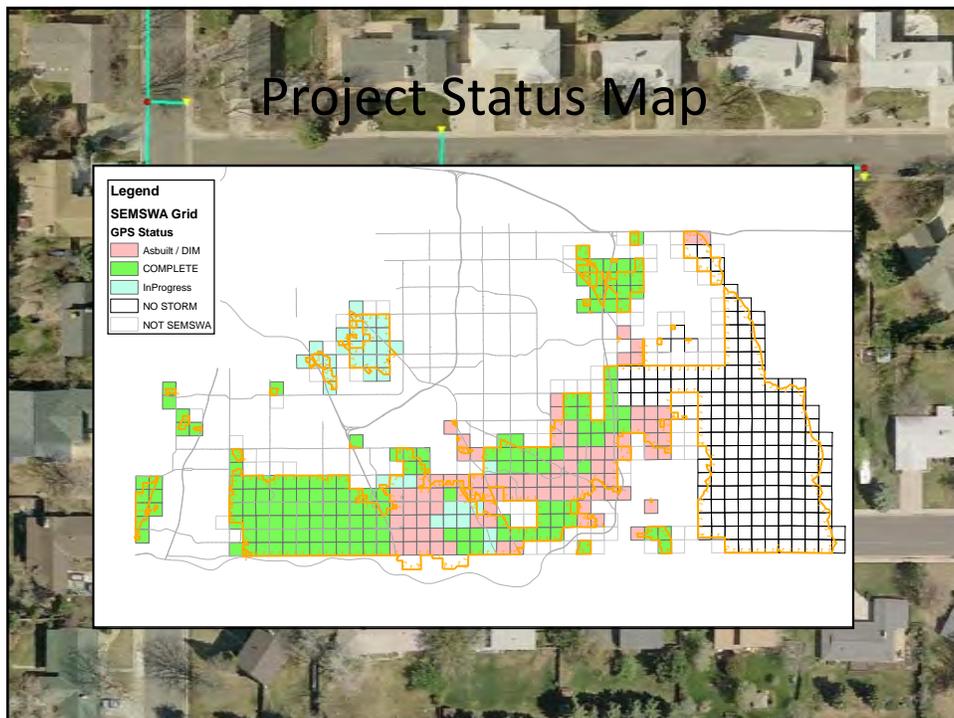


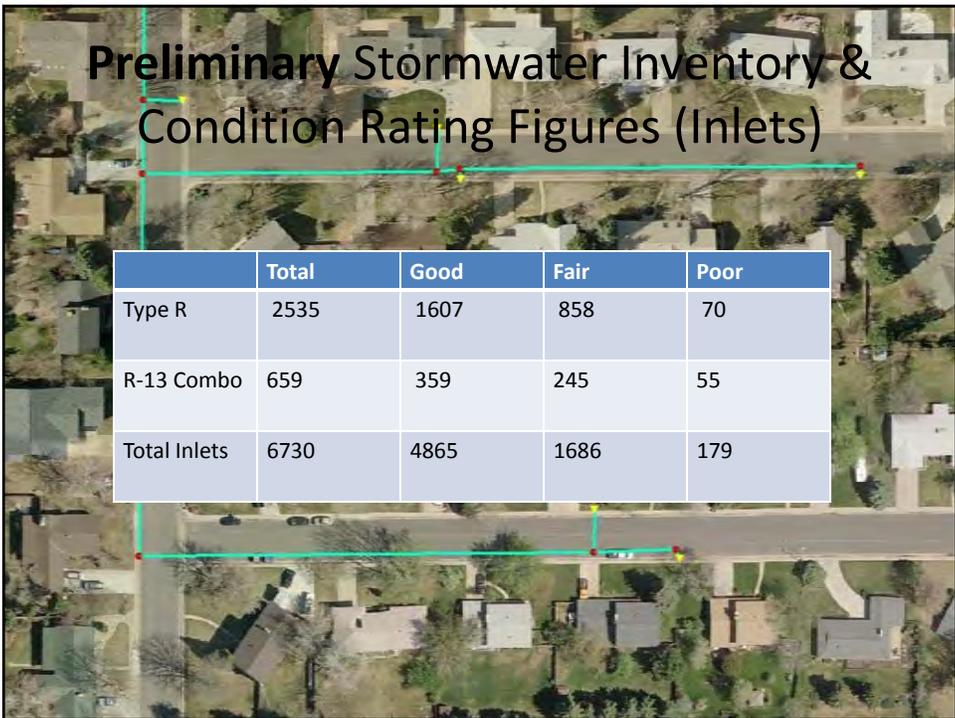
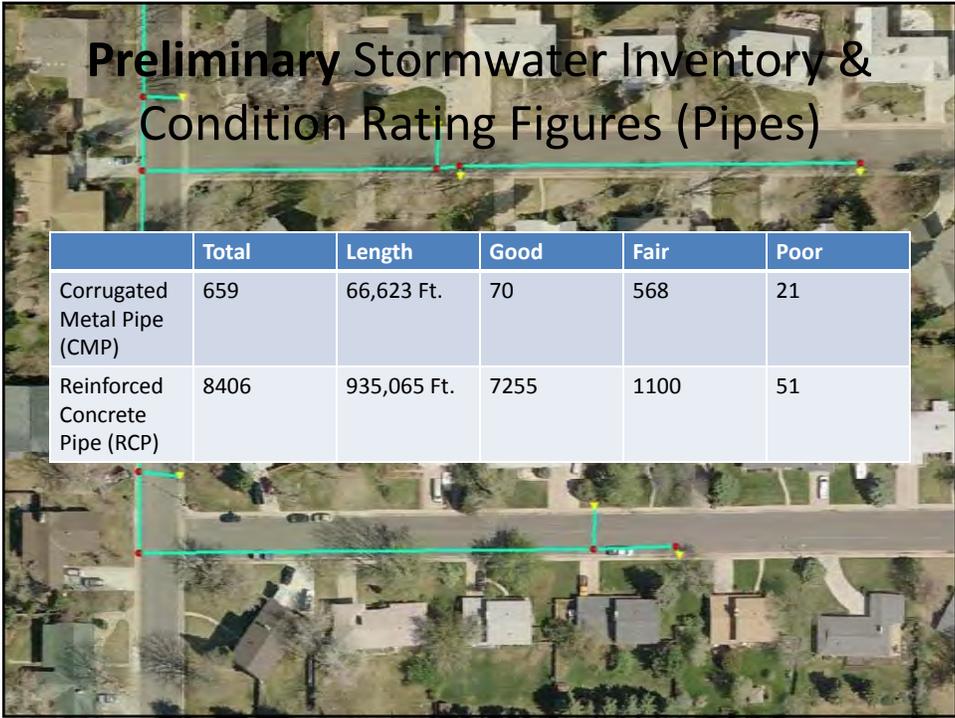
Stormwater Inventory & Geodatabase

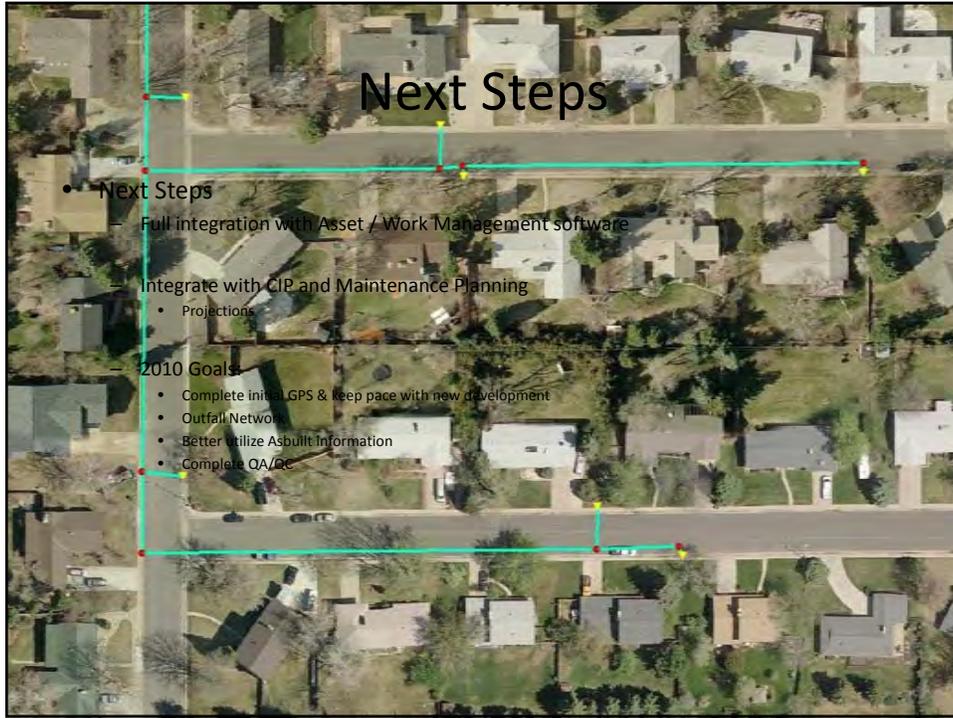
- Geodatabase
 - Layers
 - Tables



TYPE	CONDITION	COMMENTS	SOURCE	ASBUILT	INVERT DEPTH	INLET LENGTH	COMBO TYPE	TYPE DESCRIP
FVFE #			Surveyed with Handheld GPS		12.5	0'		
FVFE #			Surveyed with Handheld GPS		7	0'		
FVFE #		unknown inv.	Surveyed with Handheld GPS		0	12		
FVFE #3			Surveyed with Handheld GPS		2.5	12		
FVFE #			Surveyed with Handheld GPS		4.5	0'		
FVFE #			Surveyed with Handheld GPS		3	0'		
FVFE #			Surveyed with Handheld GPS		2.5	0'		
FVFE #			Surveyed with Handheld GPS		4.5	0'		
FVFE #			Surveyed with Handheld GPS		0	12		
FVFE #		couldn't get inv open	Surveyed with Handheld GPS		2	12		
FVFE #		blacked by ice	Surveyed with Handheld GPS		0	0'		
CHBE#			Surveyed with Handheld GPS		0	0'		
FVFE #3		Grate too high w/ side grate. Lined	Surveyed with Handheld GPS		13	0'		Grated
CHBE#		Grate w/ unknown config	Surveyed with Handheld GPS		5	0'		Grated
CHBE#		Grated w/ unknown config	Surveyed with Handheld GPS		5	0'		Grated
CHBE#		Grated w/ unknown config	Surveyed with Handheld GPS		6.5	0'		Grated
FVFE #		Drops into box culvert	Surveyed with Handheld GPS		0	12		
FVFE #		Drops into box culvert	Surveyed with Handheld GPS		0	0'		
FVFE #3			Surveyed with Handheld GPS		2.5	0'	Single	
FVFE #3			Surveyed with Handheld GPS		3.5	0'	Single	
FVFE #		unknown inv.	Surveyed with Handheld GPS		0	0'		
FVFE #			Surveyed with Handheld GPS		4.5	0'		
FVFE #			Surveyed with Handheld GPS		6.2	12		







Next Steps

- Next Steps
 - Full integration with Asset / Work Management software
 - Integrate with CIP and Maintenance Planning
 - Projections
- 2010 Goals
 - Complete initial GPS & keep pace with new development
 - Outfall Network
 - Better utilize Asbuilt Information
 - Complete QA/QC