THE CITY OF BRANSON GIS LIDAR BEGINNINGS

ADVANCED LIDAR WORKSHOP March 15, 2012

Curtis Copeland G.I.S. Coordinator City of Branson

LIDAR ACQUISITION at BRANSON

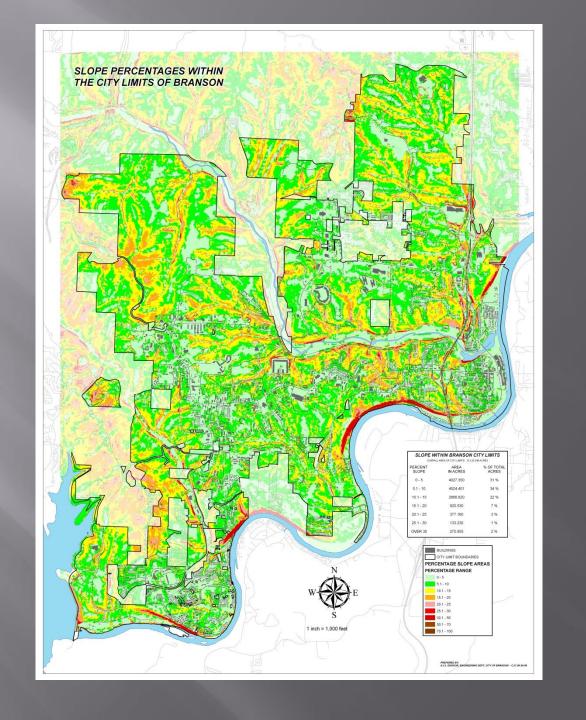
- Orthophotography and Digital 2' Contour Mapping
 - Prior to 2011 Traditional Photogrammetric DTM Development
 - Airborne GPS and Ground Control
 - ASPRS and NMAS
 - DTM to support 100 50 Scale Mapping of Plan and Topo
 - Support 6" Pixel Orthophotography
 - Quality Control Bridges, Extreme Terrain/Cliffs
 - 2011 New Technologies, New Standards and Specifications

IMPORTANT TERRAIN-BASED PROJECTS at the City of BRANSON

- Slope
 - Branson is an area with a lot of topographic relief, this creates a number of challenges
 - Structure and Site Development
 - Infrastructure Design
 - Sewer and Water
 - Roads and Bridges

- Special Cases
 - Sidewalks
 - Accessibility
 - Roads
 - Slope Thresholds
 - · Addressing (Little or No Grid System)

• How has SLOPE been Geoprocessed and Analyzed?



Drainage

- Again, the great amount of topographic relief in the area creates challenges in handling drainage and storm water
- The urbanized areas of Branson have extensive amounts of hard/impermeable surfaces.
 - Coupled with steep terrain, drainage calculations and storm water design are complicated
 - Protecting area waterways is a high priority.

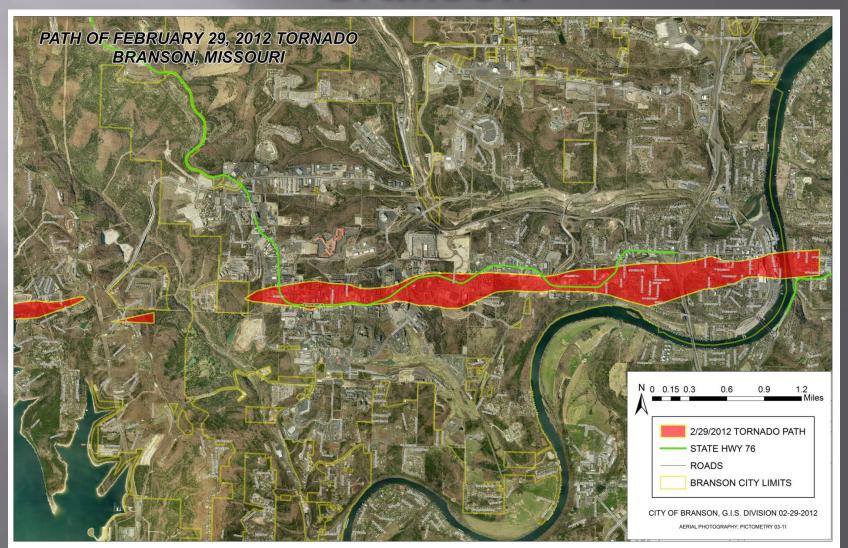
- Flood Risk Management
 - Branson suffered significant flooding in 2008 and 2011
 - Evacuation Planning and Recovery
 - Branson GIS data was utilized by multiple agencies before, during, and after the floods

- Tree Canopy and Forested Area Management
 - Tree conservation is an important topic for the City of Branson

LIDAR PROJECT WISH-LIST for Branson GIS

- Slope Analysis
- Hard/Impermeable Surface Analysis
- Building and Structure extraction
- Tree Canopy and forest area calculations

APPLIED LIDAR LEAP-DAY 2012 TORNADO in Branson

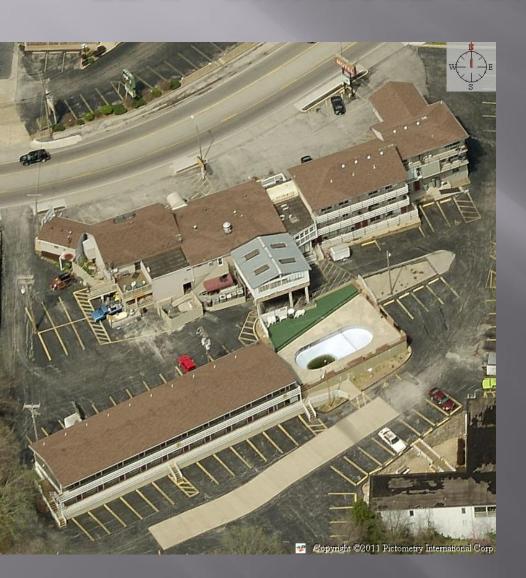


APPLIED LIDAR LEAP-DAY 2012 TORNADO in Branson





APPLIED LIDAR LEAP-DAY 2012 TORNADO in Branson





Thank You!

Curtis Copeland
G.I.S. Coordinator
City of Branson
417-337-8540
ccopeland@bransonmo.gov