Lake County Schools

Will Davis, GISP Lake County Schools

Tampa Bay GIS Group Monday, November 9th, 2015











±250 Buses in Regular Service Transporting 20,762 Students Twice Daily 30,658 Miles







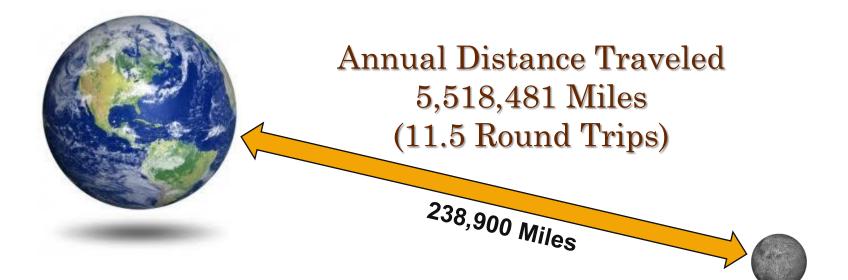
Key West, FL to Deadhorse, AK Distance of 5,489 -- 3 Days 23 Hours (w.o.t.) 30,658 Miles = 2.6 Round Trips 6.2 mpg = 4,950 gallons/day







Background







Background

- Revenue/Expenditure Shortfall
 - Expenditures = \$16 million
 - Cost to district = \$8.2 million
 - State reimbursement = \$7.8 million
- State vs. local = 51% vs. 49%
- \$1.26 million for 11 buses







- Statutory obligation to transport students
 - 6A-3 F.A.C.
 - 1006.21 F.S. to 1006.27 F.S.
- 8.30 to 8.39 School Board Policy
- Historical transportation of all students
- Started detailed 2-mile assessments (May 2008)
- Board Workshops (March 2009)
- Creation of PRZ for High Schools (July 2009)
- Submitted hazardous conditions (September 2009)





Background

- Completed 2-mile walk analysis (April 2009)
- Walkable infrastructure assessment (August 2011)
- PRZ's for Elementary & Middle Schools (June 2013)
- Locally hazardous conditions (October 2013)
- Adopt 1-mile PRZ's for Elementary (July 2015)
- Community partners
 - MPO
 - LCBCC
 - Cities
 - Safety Committees -- BPAC & CTST



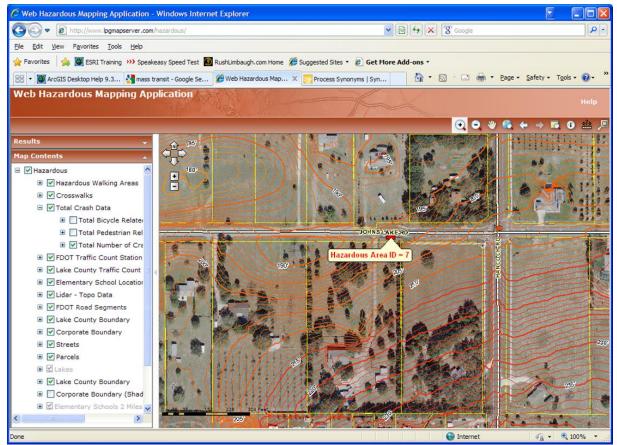


- Easily Walkable Zones (EWZ)
 - Areas depicted in GREEN
- Hazardous Walking Routes (HWR)
 - Areas depicted in RED
- Special Exception Areas (SEA/ST)
 - Areas depicted in GOLD (Short-Term)
- Special Exception Areas (SEA/LT)
 - Areas depicted in PURPLE (Long-Term)













Phase 2 Review

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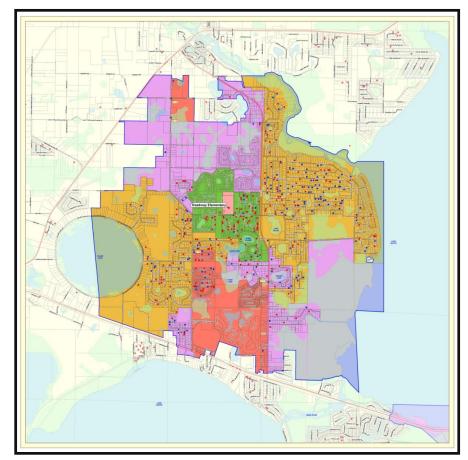






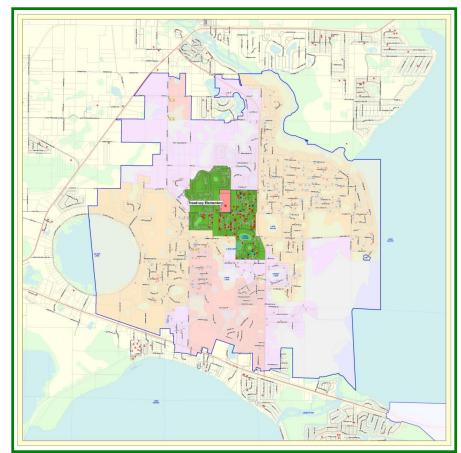






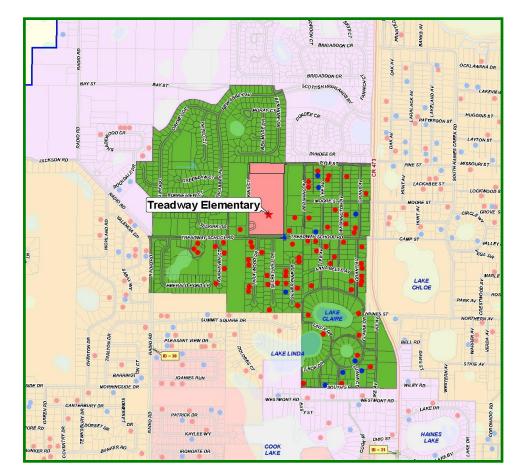






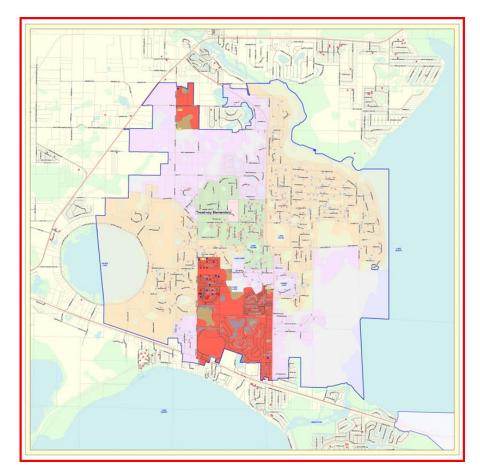






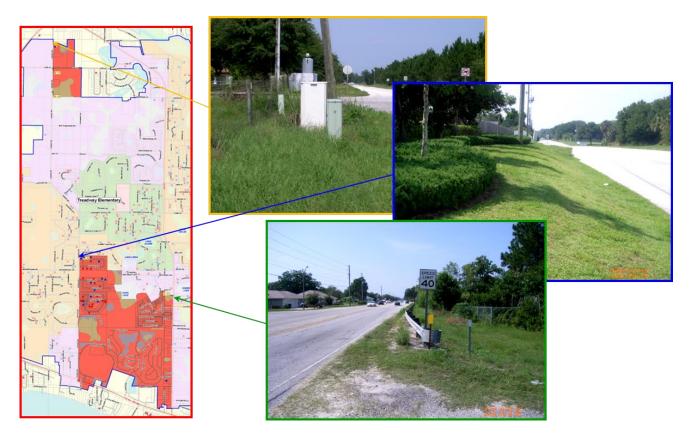






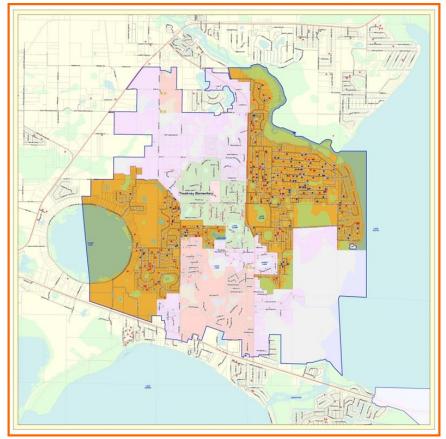


















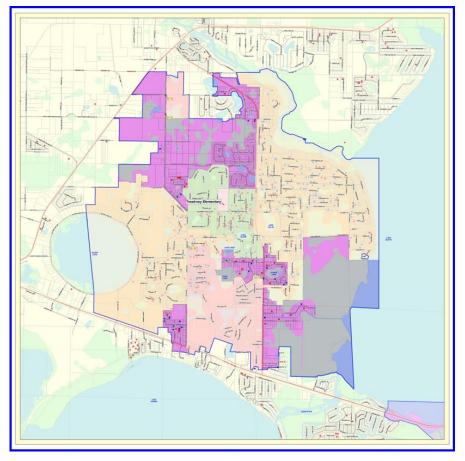






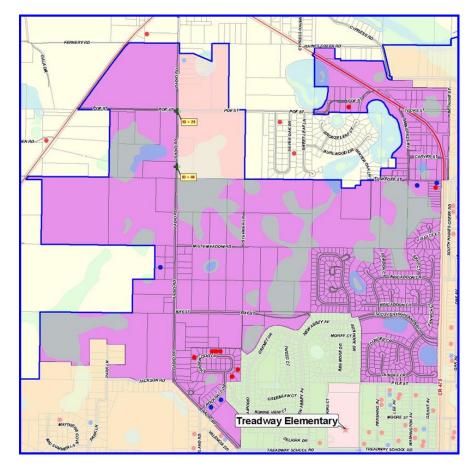














Walking Improvements

- Identified 105 key areas
 - Improvement type (6)
 - Sidewalk install (65 or 62%)
 - Crossing guard or signalization (36 or 34%)
 - Routine maintenance (4 or 4%)
 - Condition type
 - Intersection (1 or 1%)
 - Right-of-Way (35 or 33%)
 - Crosswalk (69 or 65%)





- Identified 105 key areas (cont.)
 - Impacted student riders (2,858)
 - Responsible agency
 - Maintenance
 - Law enforcement
 - Improvement cost (10-yr return)
 - \$21.4 million
 - Improvement savings (10-yr return)
 - \$20.3 million





- Performed an ROI Analysis
 - Savings vs. cost
 - 41 projects negative return
 - 64 projects positive return
 - Top 24 ranked projects
 - +\$250,000 positive return
- MPO gap analysis







Ranked 49^{th} with ROI = \$46,000





Ranked 2^{nd} with ROI = \$788,000









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