• County owned bridge built in 1967 with 50-yr design life expectancy

• Closed August 8th due to structural issues after 44 years in corrosive saltwater environment
August 4, 2011

......During this inspection, KCA's inspection team and Professional Engineer observed critical and significant deficiencies to the concrete channel beams that require the closure of this bridge to all traffic.

Overall NBI ratings for the SIA Item #59 Superstructure will be coded 1 - "IMMINENT FAILURE".
MAXIMUM DETOUR DISTANCE IS 6.2 MILES

TURNBULL ESTATES TO DOWNTOWN DETOUR IS 1.2 MILES LONGER
**Structural Inspections and Repairs**

- **1992** - Rated structurally deficient (*eligible for federal funds*)

- **2001/02** - County repairs substructure (piles/caps) ($84,034)

- **2003** - No longer rated structurally deficient (*not eligible for federal funds*)

- **2008** - Again rated structurally deficient (*eligible for federal funds*)

- **2008** - County repairs superstructure (beams)

- **2010** (Nov) - Federal funds to be available in late 2013 (for construction)

- **2011** (July) - Bridge replacement concept report completed
STATUS OF BRIDGE REPLACEMENT

- FDOT (state) agrees to accelerate funding
- Construction funding now available 2012 (July) instead of late 2013
- No procurement shortcuts allowed with federal funds
- Sept 4, 2011 – ad placed for design services
- Sept 8, 2011 – county council approves temporary repair to reopen bridge
- July 2012 – complete bridge design/row acquisition/environmental permitting
- Oct 2012 – bridge closes to build new bridge
- Sept 2013 – bridge construction complete
• Sept 8, 2011 - county council approved repair to be made to reopen bridge as soon as possible
• Scope of repair - remove and replace seven (7) critically deficient beams
• Weight limit to be 21 tons (42,000 pounds) sufficient for school buses and emergency vehicles
• Estimated cost = $120,000 - $200,000
• Sept 13, 2011 - new Smyrna Beach Commission to consider partnering 50%/50% in the cost
• Bridge reopening expected within 45-90 days
• Reduces bridge closure duration from approx 2 years to 1 year or less
Seven (7) deficient beams to be replaced
Questions / Comments?