



Speakers

- Gary Mroczka, Chief, Design Division, INDOT
- Sean Porter, overall Project Manager for American Consulting
- Tim Conarroe, Project Engineer for INDOT and head of all construction inspection
- Dan Rogers, Area Engineer, INDOT
- Brad Koester, Senior Project Manager, Walsh Construction
- JR Collard, Project Manager, Walsh Construction
- Acknowledgement for Bryan Nicol and Rick Smutzer for their leadership on making this job a success





The Problem

- Urban interstate built 27 yrs ago in need of major repairs
- Downtown Indianapolis Indiana's capital city
- Heavy commuter and thru traffic
- 175,000 vehicles per day originally designed for 60,000 vehicles per day
- Daily peak hour congestion
- Combined interstates I-65 & I-70
- Narrow width for traffic maintenance















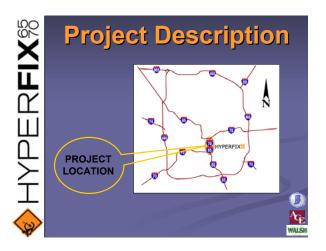
Closure Opportunity

- Alternate routes available highways and streets
 - I-465 without lane restrictions
- Access remains available
 - Collector-distributor open
- Type of construction

 - Bridge deck overlays
- Leadership support

 - INDOT Commissioner Bryan NicolINDOT Chief Engineer Rick Smutzer

























The Project

- A+B bidding contract pay for speed
- Walsh Construction of Illinois
- \$34 million with 85-day closure
- 3 phases pre-closure, full closure, and post-closure
- Incentive/disincentive
- 10.11% DBE participation



EK**FIX**%

Design Timeline

- July 28, 2000 American Consulting selected by INDOT to work on Hyperfix
- May 16, 2001 Notice to proceed with project
- July 31, 2002 Tracings turned in to INDOT (largest set of bridge rehab plans done in INDOT history)
- September 2002 Hetrick, INDOT, and ACE formulate PR effort
- October 2002 New scope of work for the pavement based on new pavement cores taken by M&T
- November 2002 At the ongoing weekly meetings with City of Indianapolis, a request was made to modify the slopewall on 10th Street for the future Monon Trail expansion



Design Timeline

- December 6, 2002 revised tracings turned in to INDOT to keep the job on a January Letting
- January 16, 2003 Bryan Nicol has a press conference to announce Hyperfix to the public
- January 22, 2003 at the INDOT letting Walsh is the lowest bidder by over \$2 million
- January 2003 PR effort kicks in high gear with ACE attending all the public meetings with Hetrick Communications
- Meet with everyone from homeowners associations, downtown businesses, police officers and firefighters, Mayor's Special Task Force, and the Indianapolis Motor Speedway





OHYPERFIX®

National Interest

- AASHTO Showcase Project of the Year
- Midwest Construction Magazine Best of 2003
- ACEC Grand Project Award for Indiana and finalist for the national award
- FHWA "Strive for excellence Award"
- ENR ran two articles about Hyperfix
- Presentations across the nation from Kentucky to Minnesota to Boston to Chicago to Washington, DC, and, of course, Road School at Purdue University





Why a huge success?

- Preparation 1 year out
- Communication Brand name
- Coordination
- Incentive 30-day early finish
- Park and Ride
- Quality and safety





INDOT Response Full-Closure Plan

- Traditional construction 180 days orange barrels and traffic congestion
- Full closure 85-day schedule w/ 30-day incentive = 55 days without orange barrels and traffic
- Reduces construction time by more than 50% as compared to traditional construction
- Minimizes road user costs > estimated \$1 million/day
- Provided highest level of safety for workers and motorists





I-465 Beltway Detour Route

- No mainline lane restrictions for first time in more than a decade.
- Signage ten miles out on all legs of interstate system.















Traffic Mitigation Plan Planning - kept as many ramps open as possible Public relations - Hetrick Communications

- Designated alternate route
- I-465 designated detour route
- Local route improvements \$1.8 million investment
 - CityFix
 - City of Indianapolis, INDOT, ACE, and E&K had many meetings to come to an agreement on how and where to spend money
- Park-and-Ride pilot program
- Emergency response plan using ITS and local police and fire responders





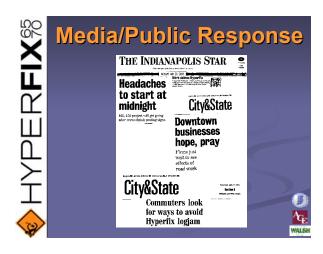
Primary Alternate Routes One of the content of the

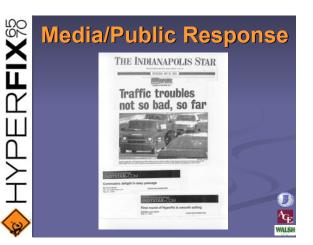








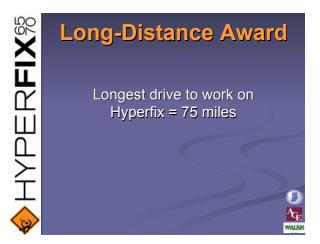


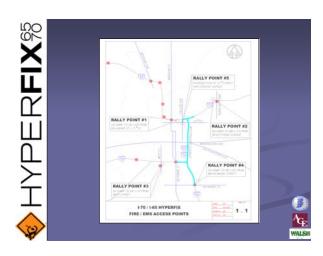


















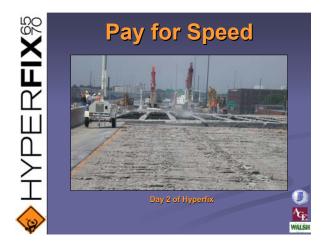
Pay for Speed Incentive/Disincentive

- Pre- and post-closure work \$10,000 / day up to 40 days
 RESULT = 38 days = \$380,000
- Full-closure work \$100,000 / day maximum 30 days

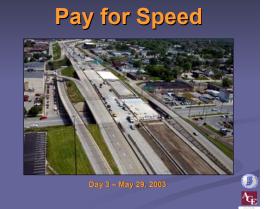
 RESULT = Contractor completed full closure in 55 days! 30 days = \$3 million
- Contract Days \$5,000 / day up to 40 days
 RESULT = Contract will be completed 40 days
 early \$200,000

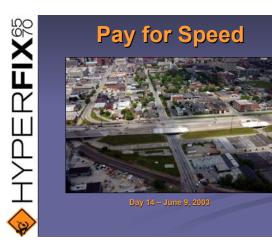
\$3.6 Million Total Incentives



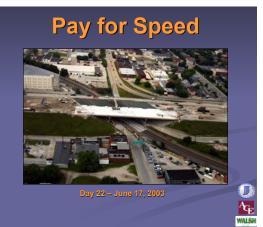






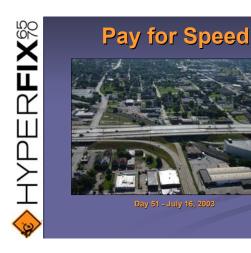




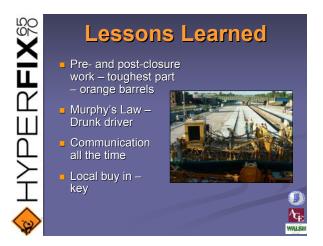


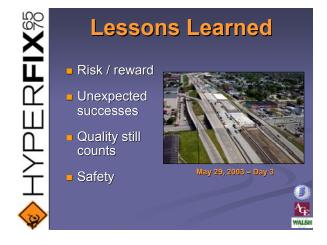








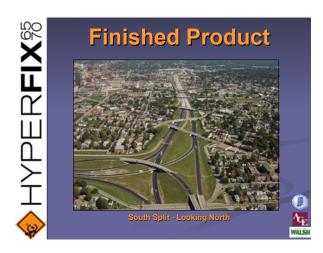




















Walsh Construction

- Based in Chicago, Illinois, with offices throughout the United States
- 100-year-old, family-owned business
- One of the top 25 construction firms in the US
- Local office in LaPorte, Indiana, since 1989
- Indiana office generates \$100 million in revenues per year





