US 31 Kokomo Collaborative Effort Yielded Successful Results

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Details

11 contracts
13 miles
36 bridges
6 interchanges
Details

- Design Team

- Land Acquisition Team
Details

- Construction Inspection
  - INDOT Project Engineer and Inspectors
- Consultant assistant PE/S
Details

- Construction Team

[Brands and logos of construction companies]
US 31 Kokomo Keys to Success

Collaborative Effort between **INDOT** and the Consultant Design Team from Cradle to Grave
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Collaborative Plan
Design & Project Management
Construction
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- Well Defined Scope of Services / Contingency Items
- Design Team
- Lead INDOT Construction Project Engineer
- Clear Communication Plan
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Design Stage (INDOT)

- Project Manager
- Area Engineer
- Lead Project Engineer
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Design Stage (Designers)

- Overall Team Coordination: Project Manager
- Coordinate between INDOT Designers Locals: Design Project Manager
- Managed Individual Sections and Tasks:
  - Contract Project Managers
  - Local Agencies
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Types of People

- Communicators
- Energetic
- Knowledgeable
- Leaders
- Follow thru/Drive tasks
- Friendships
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Design Stage (Followed PMP Process)

- Field Checks
- Constructability Reviews
- Plan Evaluations
- Public Information
- Utility Coordination
- Traffic Management Plan
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**Design**
- **Value Engineering**
  - Continuous thru Design
  - Constructability Reviews
- **New Items**
  - Dual Pavement
  - ARRA Funding
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**Drainage**

- Field tiles
- Detention
US 31 Kokomo – Final Analysis

- EIS Cost: $450.5m
- Prelim Estimate: $371m
- Award: $153.6m
- Final: $155.2m
- Overrun: 1.09%
On Time & On Budget =

![Image of group of people in high-visibility jackets]
US 31 Kokomo Key Facts:

- **On Budget:**
  - 1.1% total cost overrun on $153.5 million awarded

- **On Time:**
  - Accelerated construction schedule
    - driven by Governor Daniels and Governor Pence
  - November 2013 deadline
    - Open November 26, 2013
Of 11 contracts on the corridor:

- 5 contracts underran from 1%-8%
- 4 contracts overran from 0.3%-3.3%
- 2 contracts overran more than 5%
US 31 Kokomo Budget:

- Reasons overran more than 5%
  - IR-30107
    - 10.9% over budget, $1.5 million over budget
    - $1.25 million CO for removing unsuitable material from unregulated, buried, unknown trash dump
    - $250,000 CO for Lime Soil Drying
US 31 Kokomo Budget:

- Reasons overrun more than 5%
  - IR-34454
    - 7.0% over budget, $1.0 million over budget
    - $930,000 CO for Lime Soil Drying
What **ACTIONS** led to the successful endeavor?
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Design Stage

- Design Team engaged INDOT at every step
- Collaborated and incorporated necessary changes
- Communicated changes not recommended
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Construction Stage

- Responsive Design Team
  - Over 1500 e-mails between INDOT PE Sipes and Structurepoint

- Dedicated INDOT Project Staff
  - Staff Size Adequate
  - Project Engineers perform value engineering
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Construction Stage

- Combined Corridor Field Office
- Central Location - “One-Stop Shop”
Simply put: We Followed INDOT Guidelines for Project Management

INDOT Project Management Page:
http://www.in.gov/indot/2697.htm
From INDOT Project Management Page:

“The Indiana Department of Transportation has endorsed constructability reviews to improve the total quality of our construction bid package. The narrow focus on just fixing problems has changed to the broader focus of preventing problems. The Department will ensure the use of construction knowledge and experience in planning and design to achieve the project objectives. While early involvement of construction personnel is most important, multi-disciplinary teamwork is needed from the beginning. There are few constructability concepts that are single discipline activities.”
US 31 Kokomo – Final Thoughts

- A lot of effort
- Hard work and collaborative effort of the team paid huge dividends;
  - Quality
  - Budget
  - Time to Completion
- Professionally and personally very rewarding
Thank you!

Questions