

APPENDIX B SURVEY INSTRUMENT

SPR-3400 INDOT INSPECTION PRIORITIES

Does your DOT/District have a program/procedure to determine the number of inspectors for construction activities?

Do you calculate on-site materials inspection staff separately?

Do you staff federal funded projects differently than state funded projects?

How do you staff construction inspection?

With 100% in-house employee staffing

With 100% consultant staffing

Some projects with in-house employees others with consultants?

Mixed staffing (use of in-house employees and consultants on a project)

Other

Have you reduced/maintained/increased your CI staffing levels in the past 5 years?

If staffing levels have changed, has it been proportional to your construction program?

Do you have an inspection protocol to prioritize areas of inspection?

How would you characterize your approach to quality control/quality assurance

Provide maximum observation of all construction activities

Provide full observation of certain types of activities and provide regular observation of other activities

Require contractor certification with a QC program and provide random observation as QA

Provide full observation of certain types of activities and observe other activities as available

Other (describe)

How would you characterize the efficiency of your current inspection practices?

- a) Highly efficient
- b) Efficient
- c) Medium (neither efficient nor inefficient)
- d) Inefficient
- e) Highly inefficient

How do you inspect the following activities

	Full supervision	Regular supervision (high priority)	Occasional supervision (low priority)	Random inspection	Inspection of finished product only	No Inspection	Other
Traffic control—set up							
Clearing site							
Stripping							
Clearing site—bridge							
Installing soil erosion/sediment control items							
Excavation							
Blasting							
Handling/removal of regulated waste							
Aggregate base courses							
Embankment							
Milling							
Asphalt paving							
Concrete paving							
Concrete forms (structures)							
Reinforcement steel in structures							
Placement of concrete in structures							
Structure rehabilitation (repairs to concrete deck)							
Drilled shafts							
Driven piles							
Sheet piles							
Cofferdams							
Beam erection							
Bolting structural connections							
Post-tensioning (pre-stressed structures)							
Painting steel							
Guardrail/cable rail							
Barrier curb							
Sidewalk							
Drainage							
Traffic stripes/traffic markings							
Fence							
Electrical conduit and wiring							
ITS—fiber optic conduit and cable							
Highway lighting (foundations and poles)							

What would be the probabilities of the potential consequences of missed/reduced inspection? (1=Very Unlikely, 5= Most Likely)

	Short-term Functional Failure	Long-term Consequences Functional Failure	Increased User Costs	Decreased Deign Life	Increased Maintenance Cost	Decreased Safety
Traffic control—set up						
Clearing site						
Stripping						
Clearing site—bridge						
Installing soil erosion/sediment control items						
Excavation						
Blasting						
Handling/removal of regulated waste						
Aggregate base courses						
Embankment						
Milling						
Asphalt paving						
Concrete paving						
Concrete forms (structures)						
Reinforcement steel in structures						
Placement of concrete in structures						
Structure rehabilitation (repairs to concrete deck)						
Drilled shafts						
Driven piles						
Sheet piles						
Cofferdams						
Beam erection						
Bolting structural connections						
Post-tensioning (pre-stressed structures)						
Painting steel						
Guardrail/cable rail						
Barrier curb						
Sidewalk						
Drainage						
Traffic stripes/traffic markings						
Fence						

Electrical conduit and wiring					
ITS—fiber optic conduit and cable					
Highway lighting (foundations and poles)					
Traffic signals (foundations and poles)					
Overhead sign structures					
Landscape plantings					
Pipe placement					
Seal coating					
Sound wall post placement					
Sound wall panel placement					
Placement of lighting features					
Sub-grade treatment					
Retaining walls					

How do you rate the effectiveness of the following factors in facilitating reduction of the required inspection level? (1= Very Ineffective, 5=Very Effective)

- a) Contractor experience
- b) Accuracy of design
- c) Warranties
- d) QA/QC programs
- e) Other (please explain)

Contact information

DOT/District/Company
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 Title
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