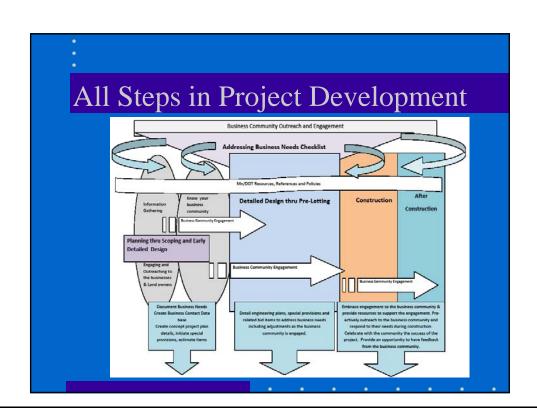
Minimizing Construction Impacts





Consider HOW to Build

- Lesson learned from Design-Build
 - First, what to build
 - Then, HOW to Build
 - Then design details

Need Construction Input

- Known unknowns
- Unknown unknowns
- Complexity of the timing of construction operations
- Putting all of the independent designs together in the real world

Staging

- Develop staging with stakeholder input
- "Independent" sub-stage plans allow easier adjustment to schedule modifications
- Innovative contracting can be tied to staging
 - A+B (Cost plus schedule)
 - Lane rentals (budget for lane closures)

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Design Temporary Conditions

- Traffic shifts: widen lanes?
- Temporary drainage
- Winter stages bridges
- Snow berms/fencing
- Maintenance of traffic elements

Agreements Needed

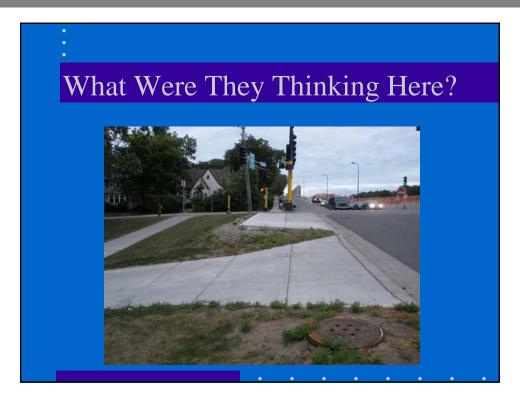
- Will official mapping affect businesses?
- Will there be special assessments?
- Will maintenance agreements be needed?
- Will private areaways or utility vaults be impacted?
- Do owners have special requests?
- How much influence over municipal consent?

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Pay Attention to Cross-Streets

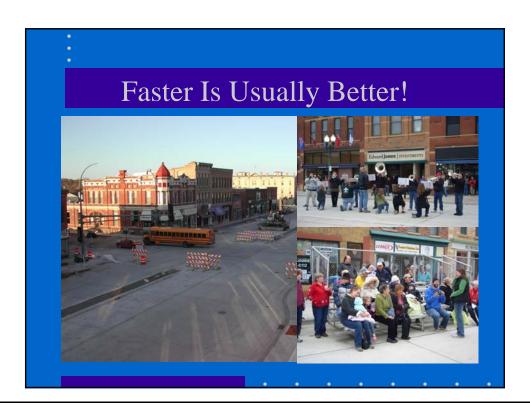
- Hydrant, push button and possibly the sign make this sidewalk noncompliant to ADA guidelines
- Cross street raised and resulted in sloped front yard and eliminated a boulevard garden





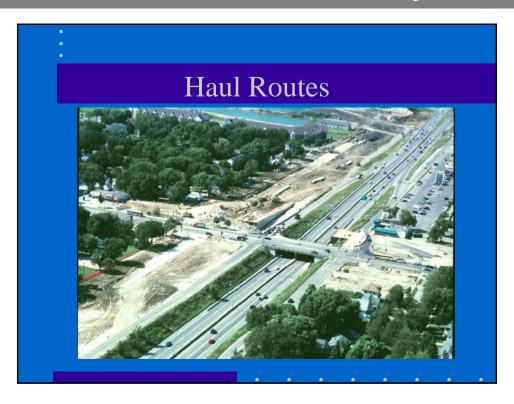


















Construction Impacts

- Noise
- Dust
- Vibration
- Visibility
- Garbage Collection
- Construction debris
- Storage of construction equipment/materials
- Delivery of equipment/materials

Mitigation of Business Impacts

Report required by Legislature – delivered in February 2009

Current Legislation Pending

- Impairment of road access, parking or visibility for a minimum period of one month
- Business liaison must be identified
- Mitigation must include signage
- Information must be to identified businesses before and during construction

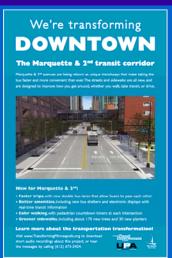
Understanding Business Impacts

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Plan for Engagement

- Who is affected?
- Best ways to communicate?
 - Hotline
 - Email
 - Printed information
 - Meetings
 - One-on-one
- Dedicated business liaison



Information to Businesses

- Project duration and timetables
- Lane and road closures detours
- Access and customer parking impacts
- Visibility
- Noise, dust, vibration
- Public participation opportunities





Construction Impacts

- What and HOW before design details
- Not just about project also about impacts
- Businesses AND residents
- Think about the details
- Their perspective
- All steps in process



Questions/Comments?