



# ATC's and Latest Bidding News

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## AGC/MoDOT Coop Meeting

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# TODAY'S PRESENTATION

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- Alternate Technical Concept Overview
- Annual Bid Bonds
- Electronic Bidding Update

# Definition

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Alternative Technical Concepts (ATC) are proposed changes to agency-supplied basic configurations, project scope, design criteria, or construction criteria. These changes provide a solution that is equal or better to the requirements in the RFP. In the broadest sense, ATCs are similar to value engineering, but they are made as a part of the proposal before contract award. ATCs provide flexibility to the proposers in order to enhance innovation and achieve efficiency.

# Why ATC's ? – Best Value for Every \$

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- Dwindling financial resources
- Many ways to accomplish goals
- 49 other DOT's – municipalities - FHWA
- Contractor's experience

# Experience

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**MoDOT + Industry =  
One Team = Best Value**

- D/B job experience
- Encourage \$ Savings
- Contract administration
- Contractor risk
- VE vs. ATC



# Where did it come from

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“A recent Navy study comparing best-value procurement with traditional methods points to a reduction in cost growth from 5.7% to 2.5%..”

NCHRP 561 NAVFAC 1996

# Examples

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Iowa – A-D (pending) DOT pre-determined value

Florida – Additive Bidding – Bid scope segments

Navy – Qualitative Cost – Technical Tradeoff

CalTrans – Meets Technical Criteria – Low Bid

England – Weighted Criteria – Point Scoring

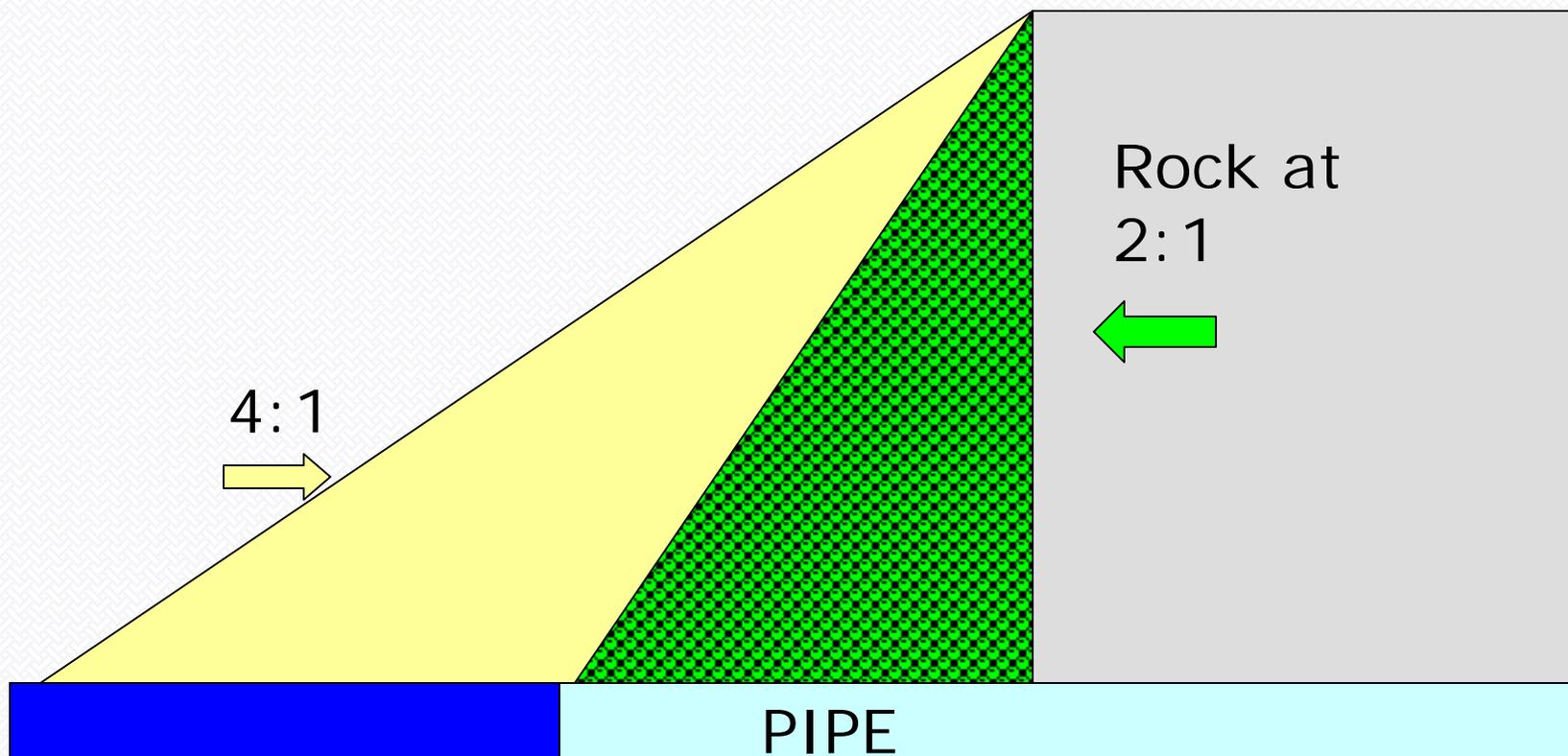
# Items

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- Rock – steeper slopes, thinner pavement
- Profiles – rolling terrain less excavation
- Medians – width or protection?
- Removals – does it need to be removed
- Retaining Walls – CIP vs. MSE vs. Elimination
- Materials – optional if we can
- Traffic Control ..... what other items??

## **Bidders Know What is Allowed at Bid Time**

# Grading and Drainage



# Pavement

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Pavement 10" PCCP/13.5" AC

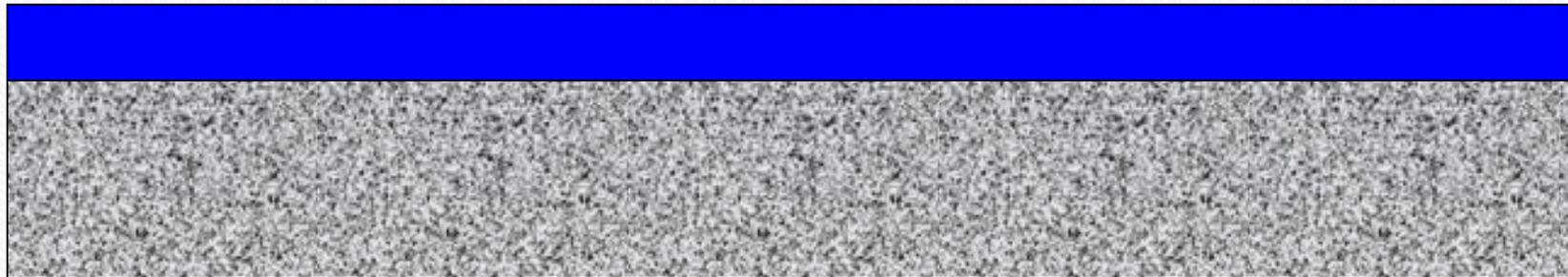


4" Aggregate Base

# Pavement

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Pavement 8.5" PCCP/9.5" AC

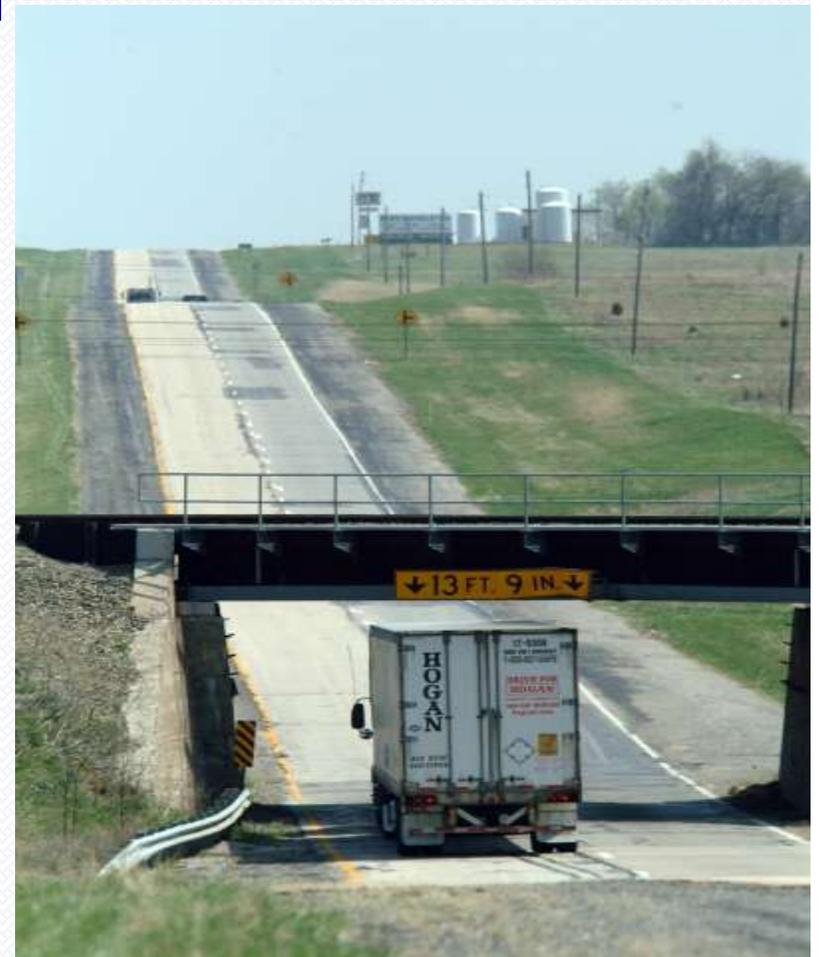


Thick Rock Base

# Bridges

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- ❑ Concrete Box vs. Arch Structures
- ❑ Steel Girder vs. Concrete Girder
- ❑ Box Girder vs. NU Girder



# General

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- Currently
  - Job Special Provision
  - May include sketches
  - Pre-approved design changes

# Pay Items

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- Plan Quantity of Initial Design
- Some Cases Lump Sum
- Change Order
  - Change to revised quantity
  - New plans for ATC effects

# Pre-Approved ATC's

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- Timelines – submittal & approval
- Technical Parameters
- Evaluation
  - Project Team review
  - Confidential
  - Pass/Fail

# Design

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- MoDOT/Consultant re-design
- Collaborative Plan Development
- Re-design completion after award
- Contractor Prequalification

# Annual Bid Bonds

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- Background
- Research
- MoDOT Proposal

# Annual Bid Bonds - Background

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- Legislative Authorization – SB 930
- Electronic vs. Paper
  - Verification
  - MoDOT - 55% Electronic Bids
- Submittal Process

# Annual Bid Bonds - Research

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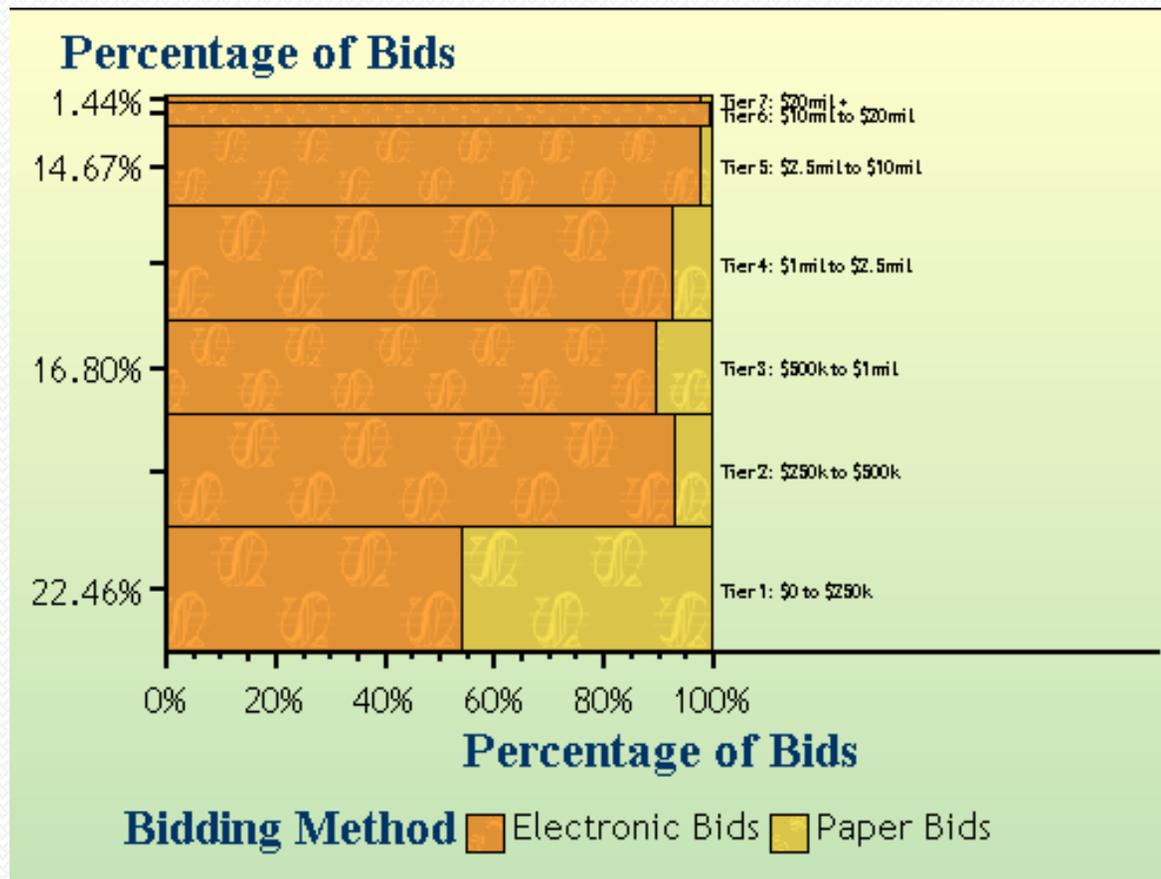
- BidX Electronic Bidding
  - Annual BB states (IA, NE, WI, MI & ND)
  - No electronic annual bid bonds
- Submittal Timeframe
  - Once a year w/ Contractor Questionnaire
  - Same time each year

# Annual Bid Bonds - Proposal

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- Allow both annual & project bid bonds
- Allow both electronic & paper bid bonds
- Submit once a year on July 1
- Handouts

# Electronic Bidding - Update



# Future? – Quote

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"In theory, there is no difference between theory and practice. But in practice, there is."

- Yogi Berra

