



DEPARTMENT OF  
TRANSPORTATION

# AGC & DOT Fall Webinar

December 5, 2024

# Topics / Agenda

- Standard Specification Update
- Alternative Contracting Methods
- Update Davis Bacon Wage Rates
- Contractor / DOT Breakout Sessions
  - Work Zone & Workforce Safety
  - Project Scheduling
  - Grading and Aggregates
  - Concrete
  - Structures
  - Asphalt Paver
  - Other Topics
- Contractor Idea / Innovation Submittal
- E-Construction Update
- Spring Summit – Feb 26 & 27
  - Topics, Themes, Speakers, Etc

# Specification Changes

- Div I Specifications
  - Revisions and Comments sent to Trauner
  - Highlights:
    - Supplemental Specs and some Special Provisions (Cooperation, BA, Precon, Schedule with changes)
    - Contract Changes
      - Differing site conditions, Significant changes in character of work, Extra work, Suspension of work, Eliminated items
      - Notification
    - Rearranged and reword language
    - Time Extensions
      - Delays, Compensation
    - Compensation for Contract Changes
      - Unit, Negotiated, Force Account, Delay Costs, Non-Allowed Charges

# Specification Changes

- New Spec Book
  - Electronic version only – tied to letting date
  - Updated with changes included each time
- Next Steps / Timeline
  - Get new revisions from Trauner
  - DOT and Contractor Review
  - Include supplemental specs and limited changes needed in Divisions 2 & 3
  - Final review
  - Begin use – Target = September of 2025 letting

# Contracting Methods

## Current Methods – SDCL 31-5-10

- Design Bid Build (DBB) – current, primary contracting method
- Indefinite Delivery/Indefinite Quantity (IDIQ)
- Emergency Procurement

## Alternate Methods

- Design Build (DB)
- Progressive Design Build (PDB)
- Construction Manager/General Contractor (CM/GC)

# 2021 Customer Satisfaction Survey Contractor Responses

From the contractors, "SDDOT should continue to improve the way it works with contractors." 2 of the 5 improvement opportunities from respondents to the contractor survey were:

- SDDOT should continue to find opportunities for contractors to provide input prior to letting
- SDDOT should continuously review the time requirements to complete projects to ensure they are reasonable

# Potential reasons to use an Alternative Contracting Method

- Contractor involvement early
- Flexibility in updating project scope
- Opportunity for innovation
- Project complexity
- Volume of project work
- Schedule impacts
- Time savings – aggressive delivery
- Early work packages – concurrent activities
- Opportunity to manage risk
- Cost impacts
- Complexity of coordination of activities
- Availability of materials, lead time
- Constructability
- Provide opportunity for SD contractors to learn with SDDOT

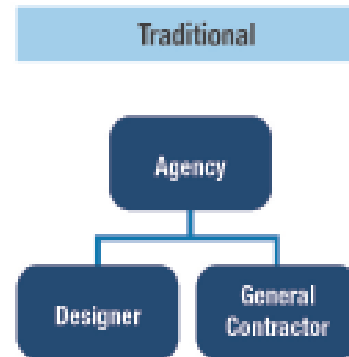
*ACM's could be used on a limited basis... have available in the toolbox if a project is conducive based on a number of reasons similar to what is shown here...*

# Design Bid Build (DBB)

Current contracting method

## Benefits

- DOT and contractors are familiar with process
- DOT maintains maximum control by specifying final product exactly
- Theoretically, design issues are worked out before advertisement
- Permitted by SCL 31-5-10
- Competitive low bids



## Challenges

- DOT assumes how the project will be built, pace of construction, and therefore takes on risk.
- Contractor then takes on risk after bid opening based on assumptions by the DOT
- Not always the fastest project delivery due to separation between design and construction
- May not provide the best value to the DOT for all project circumstances or types
- Reduces opportunity for innovation and creativity by the contractor
- Does not include contractor input into the design
- Low bid can lead to change orders, disputes and claims



## Design Build (DB)

- The owner contracts with a contractor/designer team to complete the design and construction of the project under a single contract.
- Award of the project is based on a combination of technical merit and lump sum bid price.
- Early designer and contractor collaboration promote innovation and construction efficiency.

## Progressive Design Build (PDB)

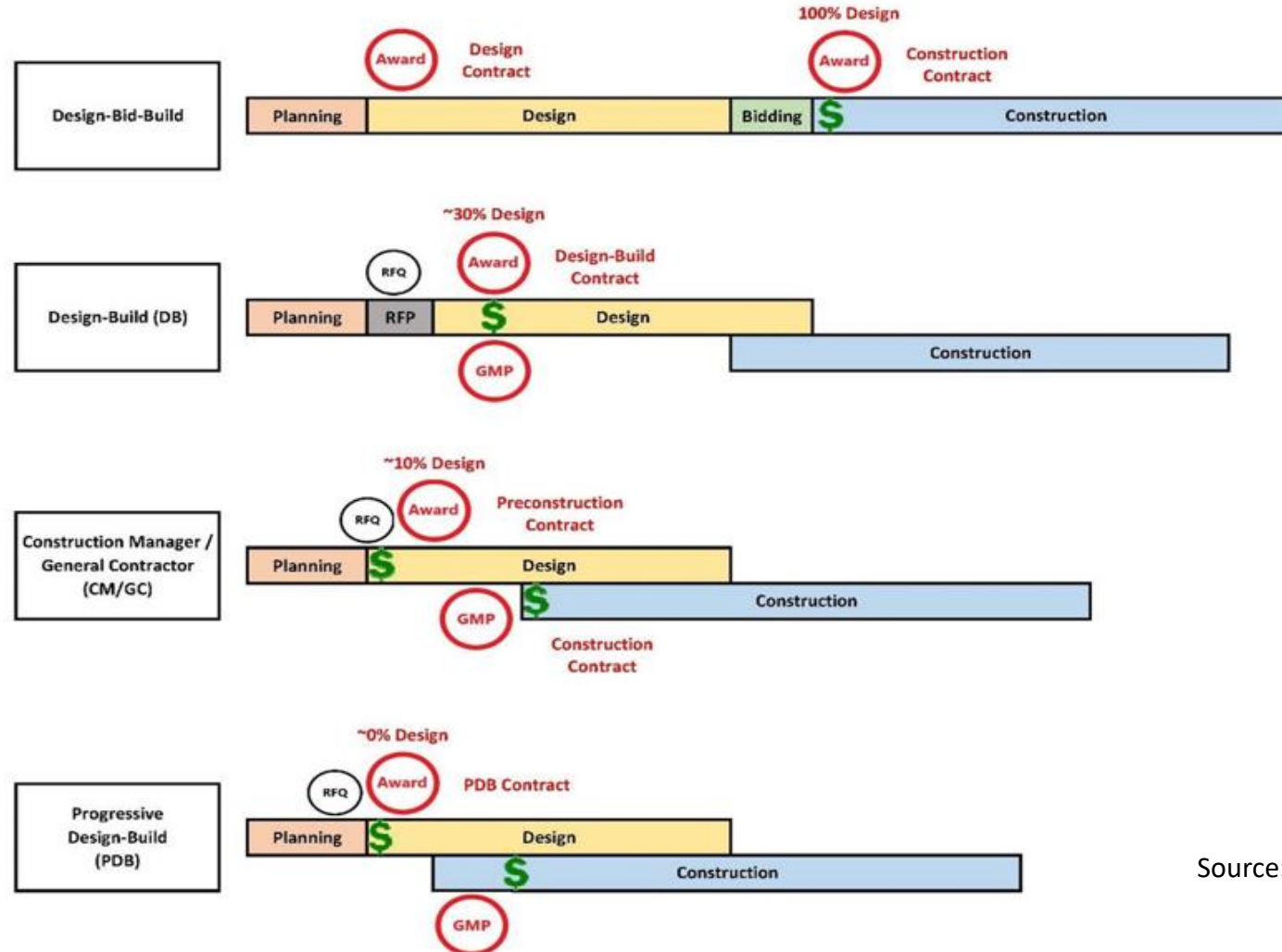
- The owner procures professional services on a qualification basis from a contractor/designer team to complete project design.
- Early designer and contractor collaboration promote innovation and reduce cost through early risk mitigation.
- Upon completion of the design, or individual design packages, the contractor and owner negotiate a price which is corroborated by the Independent Cost Estimator (ICE).

## Construction Manager General Contractor (CM/GC)

- The owner procures professional services on a qualification basis or best value basis from a construction manager.
- Design services are contracted separately from the construction manager. The designer collaborates with the construction manager to implement innovative solutions to mitigate risk.
- Upon completion of the design, or individual design packages, the contractor and owner negotiate a price which is corroborated by the Independent Cost Estimator (ICE).



# Schedule Comparisons



Source: Washington State University

# Road Map Going Forward

- Finalize Guidance Document
  - Principles
    - Transparency - website, input / comment, access to information etc.
    - Program that includes training and other support
    - Focus on specific methods
    - Vast majority projects will be design – bid – build
  - Implementation Steps
    - Discovery
    - Legislative Process
    - Administrative Development
    - Project Delivery
- Meeting with Contractor Workgroup



# Labor Law Compliance / Davis-Bacon Wage Rates

- Davis-Bacon Changes under USDOL Final Rule
- Updated to Wage Classification Definitions
- Wage Survey Update

# Key Points of Updated Rules

- Methodology to Determine Prevailing Wage
  - Majority (over 50%) of classification are the same
  - Wage rate earned by at least 30%
  - Weighted average of all in classification
- Construction Survey Workers



# Wage Classification Updates

- New Wage Groups
  - Ironworkers: G01 Steel Rebar; G02 Structural Steel
  - Painters: P01 Pavement Marking Installer/Applicator; P02 Bridge Painter
- Other Significant Changes
  - GL1 Blue Top Checker removed; GL2 Special Surface Finish Applicator was moved to a GL1, G01 Concrete Paving Cure Machine and Concrete Paving Joint Sealers were moved to a G02, etc.



# Wage Survey Updates

JOB GROUP CODE	CLASS DESCRIPTION	CURRENT MINIMUM WAGES	BASIC HOURLY WAGE RATE	HOURLY FRINGE RATE	TOTAL	NET CHANGE	
						DOLLAR	PERCENT
<b>Electricians</b>							
GE1		34.82	35.43 (Weighted Average)	8.69 (Weighted Average)	44.13	9.31	26.73%
<b>LABORERS</b>							
GL1		22.38	26.93 (Weighted Average)	0	26.93	4.55	20.32%
GL2		23.16	26.96 (Weighted Average)	0	26.96	3.80	16.41%
GL3		24.41	28.97 (Weighted Average)	0	28.97	4.56	18.68%
GL5		31.94	31.94 (30%)	0	31.94	0.00	0.00%
GL6		26.45	29.81 (Weighted Average)	0	29.81	3.36	12.70%
<b>Power Equipment Operator</b>							
GO1		24.57	30.16 (Weighted Average)	0	30.16	5.59	22.75%
GO2		24.68	31.73 (Weighted Average)	0	31.73	7.05	28.55%
GO3		26.07	31.56 (Weighted Average)	0	31.56	5.49	21.04%
GO4		27.18	32.49 (Weighted Average)	0	32.49	5.31	19.54%
GO5		30.01	34.96 (Weighted Average)	8.36 (Weighted Average)	43.32	13.31	44.36%
<b>Truck Driver</b>							
GT1		24.52	30.01 (Weighted Average)	0	30.01	5.49	22.38%
GT2		30.16	32.07 (Weighted Average)	8.42 (Weighted Average)	40.49	10.33	34.26%
<b>Ironworker</b>							
I01	New Classification pulled from GL1	22.38			26.93		
I02	New Classification pulled from GL3	24.41			28.97		
<b>Painter</b>							
P01	New Classification pulled from GL2	23.16			26.96		
P02	New Classification pulled from GL6	26.45			29.81		

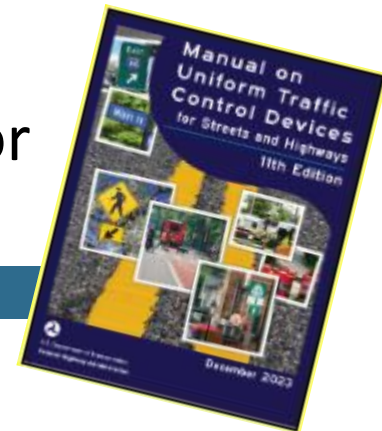
# Updates from Summit Breakout Sessions

- Work Zone Safety
- Project Schedules
- Grading and Aggregates
- Concrete
- Structures



# Work Zone & Work Force Safety

- Updates to DOT Standard Plate for Median Crossover on Divided Highway
  - Temporary rumble strips
  - Vehicle speed feedback signs
  - Regulatory speed reduction when paving adjacent to crossover
- Likely published in next quarter updates; work with DOT Project Engineer on CCO to update if desired
- TCS Course also being updated for the new edition of the MUTCD



# Work Zone & Work Force Safety

- Flagger Operations
  - Many issues lately, very dangerous job
  - Need to focus on proper flagging next construction season
  - Work group will be meeting to discuss potential changes/improvements to flagger operations and requirements
- Will need volunteers from industry to participate with the work group on this



# Project Schedules

- Special Provision for Prosecution and Progress (Schedule Provision)
- What is the issue?
- Scheduling efforts to date
- Lessons learned
- 2024 Summit topics
  - DOT Baseline schedules
  - Changes to seasonal limits
  - Specified scheduling software
- Next steps



# Grading and Aggregates

- 3-Mile Grading Limit
  - Department concerns with increasing limits
    - Geotechnical
    - Access
    - Environmental
  - Contractor can request to extend limits - CCO
    - Balancing
    - Operation
    - Coordination
    - Benefit

*No recommended changes to specifications*



# Grading and Aggregates

- Sizing of Salvaged Material

- FDR

- Literature review
    - Equipment
    - In-place material

*Recommend increasing from 1.5" to 2" top size (plan note)*

- Grading/Salvaging

- Literature review
    - Final product
    - Note: Supplemental Spec for Section 884.2 D (requiring screening/crushing)

*No recommended changes to specifications*



# Concrete

- Lower Strength to Open PCCP to Traffic
  - 2 Recent Publications on this by the CP Tech Center  
*Recommend lower to 2500psi opening to traffic (2000 for legal load construction traffic) And keep min of 4,000 psi at 28 days.*
- Alternative for Type III Cement
  - Plan note alternative already added for abutment placements  
*Higher min fresh temp , Lower W/C, higher slump, High Range W.R.*



# Structures Group

- Several Ideas were submitted for consideration
  - Overburden on Riprap
  - Payment for piling
  - Price adjustments on structural concrete
  - Stainless Steel procurement
  - Packaging structure projects
  - Winter work



# Asphalt Pavers Group

- Added Summit breakout

## Champions

- Ryan Johnson (DOT)
- Shea Lemmel (DOT)
- Neil Waldera (Spencer Quarries/Commercial Asphalt)
- Korey Bender (Border States Paving)





# Other Topics

Workforce – Work Life Balance / Project Completion Timelines

DBE Program – Engaging New DBE's

Contractor Staking – Call for volunteers



# Idea / Innovation Submittal

Website <https://dot.sd.gov/doing-business/contractors/forms-documents>

- Complete Form and Submit Idea

Operations Support is Coordinating Office

- Receives/Documents/Distributes
- Program Manager Reviews – Provides Input
- Directors Review
- Program Manager Contacts Contractor
- Program Manager Follows with Email
- Operations Support Documents

SD DOT SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION

Transportation Doing Business Projects & Studies Programs & Services Travelers Inside SDDOT

## FORMS & DOCUMENTS

Home / Doing Business / Contractors / Forms & Documents

Do you have an idea or suggestion for improvement?

[SUBMIT YOUR IDEA HERE](#)

Forms & Documents [open all](#)

- Certification & Accreditation
- Contractors
  - Bid Letting Information
  - Concrete Pipe Release
  - Contractors/Suppliers
  - Prequalified Contractors
  - CMS Web Reports
  - Disadvantaged Business Enterprise (DBE)
  - Fuel Price Index
  - Labor Compliance
  - Materials
    - Preconstruction Meetings
    - Price Adjustment Guidelines
    - Standard Specifications
    - Subcontract Requirements
  - Forms & Documents
  - Webinars
- Engineering/Design Services
- Environmental
- Local Governments
- Traffic Incident Management

# Improvement Idea Submittal Form

## South Dakota Department of Transportation Contractor Suggestion or Idea for Improvement

**Improvement Title:** *(Concisely name the topic)*

**Problem Statement:** *(What is the nature of the problem needing solution or the opportunity for improved practice?)*

**Proposed Modification, Changes or Solution:** *(What do you propose to solve the problem or make a meaningful improvement?)*

**Benefits:** *(How would change or improvement benefit the Department of Transportation, Contractors, stakeholders and/or customers?)*

**Urgency:** *(How soon must this be initiated or completed to be useful? Why?)*

**Follow Up:** *(Do you want to be contacted? Are you willing to participate in improvement discussion / meetings? Is there a need to form a DOT/Contractor improvement team?)*

**Submitted By:**

Name:

Title:

Organization:

Address:

City, State, Zip Code:

Phone/Fax:

E-mail:



# Ideas Received to Date

- Pier Wall Design – Caps on Slab Bridges
- Permanent Casing for Drilled Shafts
- Improve Ability to Search Past Projects on Website
- Provide Accurate Asphalt Depths in Plans
- Specification of Geogrid
- Bridge Joint – Armor Angle vs. Membrane Seal
- Rails Design on T101 Base Plates



# E-Construction Update

- Replace CM&P and MS&T developed in 1990s in-house
- RFP for COTS (Commercial Off the Shelf System)
- Vendor Selected, finalizing contract end of 2024
- Electronic submittals for shop drawings, test results, etc. with ability to view results immediately online when available
- Timeline – Pilot Projects 2026?

# AGC & DOT Summit – Feb 26/27

- Topics / Focus Areas
- Breakout Sessions
- Region Project Open House
- Presenters / Speaker Ideas

# Questions / Discussion