

**SIGNIFICANT CHANGES IN CDOT's 2022
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION**

The following are significant changes from the 2021 Standard Specifications Book to the new 2022 Standard Specifications Book. Most of the changes were previously adopted by CDOT's Specification Committee as standard special provisions and have been applicable to projects put under construction since their adoption.

The following general changes have been made:

Created a **List of Reference Tables**, located after the Table of Contents. Standardized Table labels and titles throughout.

Word changes throughout the Specification Book, for consistency:

Removed all occurrences of "herein", "hereinafter" and "therein" removed

"In accordance with" changed to "per"

"Prior to" changed to "before"

AFFECTS COST ITEM NAMES

work day changed to workday (1 word)

"Tensioned Cable Barrier" changed to "High-Tension Cable Barrier" (match FHWA)

"Sound" Barrier changed to "Noise" Barrier, per FHWA

blankout changed to blank out (2 words)

drain pipe changed to drainpipe (1 word)

sign post changed to signpost (1 word)

DOES NOT AFFECT COST ITEM NAMES

top coat changed to topcoat (1 word)

top soil changed to topsoil (1 word)

water tight changed to watertight (1 word)

work space changed to workspace (1 word)

wheel base changed to wheelbase (1 word)

time scale changed to timescale (1 word)

gage changed to gauge (old spelling)

Hyphenated descriptor words, samples, but not limited to (when describing an item):

high water mark changed to high-water mark

stainless steel changed to stainless-steel

water soluble changed to water-soluble

As per CDOT Style Guide for Writing Specifications, 4.22.21:

Change “ten” to 10, unless an exception cited in the Style Guide, see “Numbers 1 to 10”.

Various changes of “that” versus “which” situations, see Terms for Consistency, “that versus which”.

Various commas added or subtracted, see “The Comma”.

“insure” versus “ensure” situations, see “Assure, Ensure, Insure”.

All fractions from $\frac{x}{y}$ (superscript/subscript) to x/y, see “Fractions, “Decimals and Compound Numbers”.

All initialisms and acronyms spelled out on first use, then use of initialism or acronym, see “Initialisms and Acronyms”.

All “and/or” revised, see Terms for Consistency, “and/or”.

Treatment of measuring units, see “Symbols”

% to “percent” in text, see “Symbols”

Standardize format of tables, see “Tables”

The following Sections of the Specification Book contain significant revisions:**Significant Changes to the 2021 Standard Specifications**

Specification Sections with Significant Changes	What was Changed (by Subsection Number)
101 <i>Definitions and Terms</i>	Added: ASA American Society of Agronomy BLM Bureau of Land Management DBE Disadvantaged Business Enterprise EEO Equal Employment Opportunity EPA Environmental Protection Agency ISEA International Safety Equipment Association MIL Military Specifications NTPEP National Transportation Product evaluation Program RCSC Research Council of Structural Connections

Specification Sections with Significant Changes	What was Changed (by Subsection Number)
	<p>TMECC Test Method for the Examination of Composting and Compost</p> <p>USDA NRCS US Department of Agriculture, Natural Resources Conservation Services</p> <p>Remove:</p> <p>ARA American Railway Association (no longer exists, now known as AAR)</p> <p>AREA American Railway Engineering Association (no longer exists, no known replacement)</p>
	Holidays: Add Juneteenth, June 19, as a state holiday
	<p>Added/revise the definition of:</p> <ul style="list-style-type: none"> • Environmental Product Declaration • Finished Grade • Product Category • Product Category Rule • Proposal Form (revised)
103 <i>Award and Execution of the Contract</i>	103.01 Revise: B2GNow requirements have changed. Registration is no longer required in order to work with CDOT. However, account creation is a mandatory compliance element.
105 <i>Control of Work</i>	105.02 Revise Table 105-1, "Qualifications" added
	105.05 (c) Added "Gradation Element"
	105.06 Revise Pay factor Calculation for Compressive Strength. The pay factor calculation for compressive strength was not updated in this section to reflect the change that was made to increase the maximum incentive from 2% to 3%. This change had already been made in the I/D software.
	105.21 (b) Final Acceptance – Release of retainage verbiage added.
106 <i>Control of Material</i>	106.05 "Sampling and Testing of Hot Mix Asphalt" Replace this subsection, totally revised
	106.10 (a) Replace "Buy America Requirements", updated.
106 and 412 <i>Portland Cement Concrete Pavement</i>	This specification allows a new method for determining pavement thickness. A MIT Scan can be used to sense metal plates under the pavement to determine thickness. Procedure and revised sample frequency include. Should not be used in urban situations with multiple utilities under the pavement.
107 <i>Legal Relations and Responsibility to Public</i>	107.07 Added new subsection "Performance of Safety Critical Work", renumber subsections going forward.

Specification Sections with Significant Changes	What was Changed (by Subsection Number)
108 <i>Prosecution and Progress</i>	108.08 "Determination and Extension of Contract Time "- Adding the Engineer's review timeframe of a time extension request.
202 <i>Removal of Structures and Obstructions</i>	202.01 Description - added a paragraph to describe removal of bridges.
	202.03 Salvable Material – added "Protect and remove all brass bridge plaques prior to demolition of the bridge. Deliver plaques to the Region Environmental group or Staff Bridge."
	202.08 added "Unless otherwise directed, remove the substructures of removed structures to 2 feet below the natural stream bottom and remove those parts outside of the stream down 2 feet below natural ground or finished surface. Remove such portions of existing structures, which lie wholly or in part within the limits of a new structure, as necessary to accommodate the construction of the proposed structure."
	202.09 Added new subsection "Removal of Bridge", renumber subsections going forward.
	202.13 Added cost item "Removal of Bridge"; Added "Payment for Removal of Bridge will be full compensation for all labor and materials required to complete the work, including preparation and implementation of the Bridge Removal Plan, Engineering work, inspection, equipment, debris handling and disposal, salvaging, handling and storage of salvable materials, handling and disposal of all hazardous materials and disposal of non-salvable materials." AND added "Lighting required for nighttime operations will not be measured and paid for separately but shall be included in the work."
401 <i>Plant Mix Pavements - General</i>	Remove and replace subsections 401.16 and 401.17
504 <i>Walls and 641 Shotcrete</i>	504.01 Description – completely revised, showing MSE and Soil Nail walls.
	504.09 thru 504.24 MSE walls only Added new subsection, renumbered going forward 504.25 Description for Soil Nail Wall Added new subsections 504.30 thru 504.50
	641.07 measurement of shotcrete facing, 641.09 Cost item for Initial shotcrete facing.
509 <i>Steel Structures, 512 Bearings, and 518 Waterstops and Expansion Joints</i>	509 Remove and replace section 509; 512.02, paragraph 5 revised, 512.03 delete paragraph 2; 518.02, paragraph 2 revised, 518.04, paragraph 4 revised, 518.05 (b), paragraph 1, after the table, revised, and additional paragraph added.

Specification Sections with Significant Changes	What was Changed (by Subsection Number)
<i>625 Construction Surveying</i>	Subsection 625.04 added
<i>630 Construction Zone Traffic Control</i>	630.11 Added verbiage at the end, 630.11 (8) Add TCS name and signature
<i>702 Bituminous Materials</i>	Table 702-1, Revise a value from 5,000 to 6,000
<i>703 Aggregates</i>	Table 703-7, replace table, values revised
<i>718 Traceable Utilities</i>	Added new section

Following is a list of standard special provisions incorporated into the 2022 Standard Specifications:

STANDARD SPECIAL PROVISIONS

incorporated into the 2022 Standard Specifications for Road and Bridge Construction

- Revision of Section 103 – Consideration of Proposals
- Revision of Section 105 – Pay factor for Incentive/Disincentive
- Revision of Section 105 – Control of Work – Retainage
- Revision of Section 105 – Table 105-1, Revised Submittals list
- Revision of Section 106 – Buy America Requirements
- Revision of Sections 106 and 412 – Portland Concrete Cement Pavement (PCCP) thickness
- Revision of Section 107 – Performance of Safety Critical Work
- Revision of Section 109 – Scale Ticket
- Revision of Section 202 – Removal of Bridge
- Revision of Sections 504 and 641 – Walls
- Revision of Section 509 – Steel Structures
- Revision of Section 512 – Bearings
- Revision of Section 518 – Waterstops and Expansion Joints
- Revision of Section 601 – Structural Concrete
- Revision of Section 625 – Geospatial
- Revision of Section 630 – Traffic Control Supervisor (TCS) signature required
- Revision of Section 702 – Bituminous Materials, Table 702-1
- Revision of Section 703 - Aggregate
- Revision of Section 703 - Chip Seal, Table 703-7