

July 29, 2011

REVISION OF SECTION 601
CONCRETE SLUMP ACCEPTANCE

NOTICE

This is a standard special provision that revises or modifies CDOT's *Standard Specifications for Road and Bridge Construction*. It has gone through a formal review and approval process and has been issued by CDOT's Project Development Branch with formal instructions for its use on CDOT construction projects. It is to be used as written without change. Do not use modified versions of this special provision on CDOT construction projects, and do not use this special provision on CDOT projects in a manner other than that specified in the instructions unless such use is first approved by CDOT's Standards and Specifications Unit. The instructions for use on CDOT construction projects appear below.

Other agencies which use the *Standard Specifications for Road and Bridge Construction* to administer construction projects may use this special provision as appropriate and at their own risk.

Instructions for use on CDOT construction projects:

Use on projects having any type of concrete construction.

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 REVISION OF SECTION 601
 CONCRETE SLUMP ACCEPTANCE

Section 601 of the Standard Specifications is hereby revised for this project as follows:

Delete the fifth paragraph of Subsection 601.05 and replace with the following:

Except for Class BZ concrete, the slump of the delivered concrete shall be the slump of the approved concrete mix design plus or minus 2.0 inch. The laboratory trial mix must produce an average compressive strength at least 115 percent of the required field compressive strength specified in Table 601-1. When entrained air is specified in the Contract for Class BZ concrete, an air entraining admixture may be added to an approved Class BZ mix design. A new trial mix will not be required.

Delete Subsection 601.17 (b), 601.17 (d) and Table 601-3 and replace with the following:

(b) *Slump*. Slump acceptance, but not rejection, may be visually determined by the Engineer. Any batch that exceeds the slump of the approved concrete mix design by 2.0 inches will be retested. If the slump is exceeded a second time, that load is rejected. If the slump is greater than 2 inches lower than the approved concrete mix design, the load can be adjusted with a water reducer, or by adding water (if the w/cm allows) and retested.

Portions of loads incorporated into structures prior to determining test results which indicate rejection as the correct course of action shall be subject to reduced payment or removal as determined by the Engineer.

(d) *Pay Factors*. The pay factor for concrete which is allowed to remain in place at a reduced price shall be according to Table 601-3 and shall be applied to the unit price bid for Item 601, Structural Concrete.

If deviations occur in air content and strength within the same batch, the pay factor for the batch shall be the product of the individual pay factors.

**Table 601-3
 PAY FACTORS**

| Percent Total Air | | Strength | | |
|-----------------------------------------|----------------------|---------------------------------------------------------|----------------------|------------------------------------------------------------|
| Deviations From Specified Air (Percent) | Pay Factor (Percent) | Below Specified Strength (psi) [< 4500 psi Concrete] | Pay Factor (Percent) | Below Specified Strength (psi) [≥ 4500 psi Concrete] |
| 0.0-0.2 | 98 | 1-100 | 98 | 1-100 |
| 0.3-0.4 | 96 | 101-200 | 96 | 101-200 |
| 0.5-0.6 | 92 | 201-300 | 92 | 201-300 |
| 0.7-0.8 | 84 | 301-400 | 84 | 301-400 |
| 0.9-1.0 | 75 | 401-500 | 75 | 401-500 |
| Over 1.0 | Reject | Over 500 | Reject | |
| | | | 65 | 501-600 |
| | | | 54 | 601-700 |
| | | | 42 | 701-800 |
| | | | 29 | 801-900 |
| | | | 15 | 901-1000 |
| | | | Reject | Over 1000 |