

CITY OF KANSAS CITY, MISSOURI  
SUPPLEMENT No. 2  
TO  
APWA DIVISION II  
CONSTRUCTION and MATERIAL SPECIFICATIONS

**SECTION 2300 – INCIDENTAL CONSTRUCTION**

This is Kansas City, Missouri's supplement No. 2 to APWA Section 2300 INCIDENTAL CONSTRUCTION, adopted by Kansas City Metropolitan Chapter APWA on December 17, 2002. The following additions, deletions, and/or revision shall become a part of Section 2300 for use in Kansas City Missouri.

Text changed in this draft is highlighted in ***bold italics***.

MCIB reference is modified to:  
MCIB – all sections

**2301.2.A Materials:** Paragraphs A and B are deleted in their entirety and replaced with the following:

- A. Concrete Mix: Concrete shall conform to Section 2209.2 and be **MCIB WA610-1-4-0.410 or WA561-1-2-0.410**
- B. Contractor shall recognize the effects of temperature, wind, and humidity when placing and curing concrete. When the ambient air temperature is 90 degrees F (32 degrees C) or higher, a retarder shall be used in the concrete mix. ***When the ambient air temperature is 90 degrees F (32 degrees C) or higher and the wind velocity is above 20 mph, evaporation shall also be controlled.***
- C. Special aggregate concrete shall be used In the Central Business District (CBD, ***as defined in Section 2209.2***).
  - 1. The special aggregate shall conform to the requirements of 2209.2.
  - 2. Class F fly ash or slag shall be added as necessary to offset ASR potential. Fly Ash shall conform to ASTM C 618. Slag shall conform to ASTM C989, Strength Grade 120.

3. ***Submittals and testing shall conform to Section 2208.2.B.2 and 2703.3.***

- D. Reinforcement is not required under Public Works Department contracts or permits, except in the Central Business District, as defined in 2209.2. Reinforce with 6x6 – W2.9 x W2.9 welded steel wire fabric, or as shown on the plans.

2301.3 plus Paragraphs A and B are modified as follows:

2301.3 **Construction Details:** The sidewalks, sidewalk ramps, driveways or bicycle pedestrian paths shall be constructed or reconstructed to the configuration and to the lines and grades shown on the plans. Generally sidewalk, sidewalk ramps, driveways and bicycle/pedestrian paths should be constructed after the curbing. Sidewalk ramps concrete shall comply fully with all requirements for sidewalks in this section. Ramp construction and layout shall conform to the most current adopted KCMO sidewalk ramp drawings.

- A. **Removal:** Existing sidewalks, sidewalk ramps, driveways, or bicycle/pedestrian paths shall be totally removed to the nearest contraction or isolation joint, unless otherwise directed by the Engineer. **Concrete not removed at a joint** shall be sawed full depth.
- B. **Grading and Subgrade Preparation:** All excavation or embankment required in the grading or subgrade preparation shall be as defined in the Sections 2100 and 2201 entitled "Clearing and Site Preparation" and "Subgrade Preparation," except as follows:

The top 6 inches (150 mm) of the subgrade shall be compacted to obtain a density of 95 percent of maximum in conformance with Section 2201.3B.

On reconstruction projects or after roadway grading is completed on new construction, **additional fill material needed** beneath sidewalks or driveways shall be crushed stone conforming to Section 2202.2, placed and compacted in conformance with Section 2202.3.

**2301.3 Construction Details:** Add the following after paragraph 2301.3.D:

- E. **Location.** ***All public sidewalks within Kansas City shall be constructed of PC concrete and shall be located in the public right-of-way or within a public sidewalk easement. The standard location***

***shall be one foot from the right-of-way or easement line. Sidewalks shall be constructed to allow access to all pedestrian signal actuation devices and bus stop shelters.***

- F. Required Dimensions. The minimum width of public sidewalks on residential streets shall be four feet. The minimum width of public sidewalks along higher class streets shall be five feet. The minimum width of public sidewalks abutting curb shall be five feet. Uninterrupted four foot wide walks shall have a five foot square passing space every 200 feet. All public sidewalk shall be a minimum of four inches thick.***
- G. Grades and Slopes. The grade or slope along the length of the walk shall be as near parallel to the street gradient as practical. The maximum longitudinal slope shall be 5%, except where a variance from street grade has been approved by the City Engineer.***
- The standard cross slope shall be 2% maximum toward the street and this 2% slope shall be carried thru driveways. The finish grade of the sidewalk shall allow the grass area between the curb and the sidewalk (sometimes called parkway) to slope toward the street at a maximum grade of 4%, except as shown on the plans.***
- H. Wheelchair accessible curb ramps shall be constructed at all street crossings and shall conform to the most current adopted KCMO Sidewalk Ramp Standard drawings . The minimum allowable thickness for wheelchair accessible curb ramps shall be eight inches. Curb ramps shall be poured monolithically with the curb.***
- I. Maximum slope of ramps shall be one inch per foot. Minimum width shall be four feet, except along thoroughfare corridors where the width shall be five feet. Transitions from ramps to walks, gutters, or streets shall be flush and free of abrupt changes. Side (flare) slopes of ramps shall not exceed 1:10 where such side slopes are in the normal path of pedestrians on adjacent portions of sidewalk. Ramps with curbs may be used when pedestrians would not normally cross through the ramp. Surface texture shall be a coarse broom finish transverse to the slope of the ramp. If the street curb has not been constructed to receive the sidewalk ramp, the curb shall be removed and reconstructed as required.***

2301.4 **Joints:** paragraph 2301.4B is modified as follows:

- B. **Isolation joints.** Isolation joints shall be placed ***as shown on the standard drawings, where new concrete abuts existing, against structures, and as directed by the Engineer or as indicated on the plans. In no case shall isolation joints exceed 250' center to center.*** Isolation joints are often referred to as “expansion joints” in some documents and drawings.

2301.5.E is modified as follows:

2301.5 E **Temperature Limitations:** Concrete shall be placed in accordance with the requirement of MCIB Sections 10 and 11, as modified. ***Concrete with temperature above 90 degrees F may be placed provided sufficient labor and equipment is furnished to pour, finish and cure the concrete to meet city standards before it sets.***

2301.7 is modified as follows:

2301.7 **Joint Sealing and Clean-Up:** All isolation joints shall be sealed with an approved ***one-component, moisture-curing, non-priming, gun-grade, elastomeric polyurethane joint sealant that meets the requirements of ASTM C920, Type S, Grade NS, Class 25, Use NT and M. It shall be applied in accordance with the manufacturer's instructions*** within 7 days of the placement of the concrete.

The Contractor shall be responsible for the removal of excess dirt, rock, broken concrete, splatters and overspray from the construction area within 10 days unless otherwise directed by the Engineer.

2208.4 is modified as follows:

- A. **Fence:** Fence ***and pedestrian gates*** shall be measured along the slope of the fence to the nearest linear foot (.05m). Vehicle gates shall not be included in this measurement.
- B. **Gates:** ***Vehicle*** gates shall be measured per each for the size and type specified.

**Add** the following **new section** 2309:

## **SECTION 2309 STEEL BEAM GUARDRAIL**

**2309.1 Scope:** This section governs furnishing materials for and installation of galvanized steel beam guardrail.

2309.2 A & B are modified as follows:

### **2309.2 Materials:**

- A. Steel Posts:** All posts, terminal post connectors, and steel blocks for guardrail shall be formed from a structural steel meeting the requirements of ASTM A-36, ***and shall be galvanized in accordance with ASTM A-123.***
- B. Guardrail and Hardware:** All guardrail and hardware shall conform to the requirements of AASHTO M-180 Class A, Type 1. ***Hardware shall be galvanized in accordance with ASTM A-153. Guardrail shall be galvanized with a minimum of 1.80 ounces of Zinc per sq. ft. All Zinc shall be "Prime Western" grade or better***

## RESOLUTION

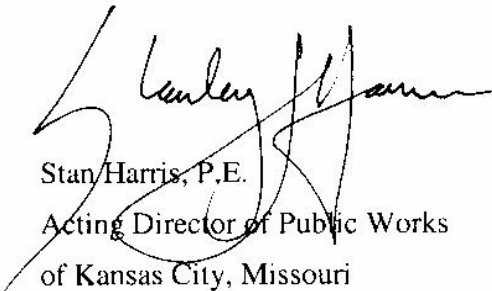
Be it resolved by the Director of Public Works of Kansas City, Missouri that the following listed Section of Division II, Construction and Materials Specifications, approved and adopted December 18, 2002 by the Kansas City Metropolitan Chapter of the American Public Works Association is approved and adopted as Official Standard Construction and Materials Specifications for the Department of Public Works of Kansas City, Missouri with like section and page numbers, except as modified by the replacement pages of the January 2004 KCMO Supplement and hereby further modified by the attached supplement.

Section 2300 Construction and Material Specifications for Incidental Construction

A copy of said specifications criteria and supplement are attached hereto and incorporated herein by reference.

The criteria shall become effective March 1, 2005 and shall modify all previously adopted supplements to this section.

Approved and adopted as Official Document No. CS050 362  
this first day of March, 2005.



Stan Harris, P.E.  
Acting Director of Public Works  
of Kansas City, Missouri