

2017 TECHNICAL SPECIFICATIONS
UPDATES
Summary of Changes

SAMPLING & TESTING FREQUENCY CHART

1. Revised all proof rolls to 25 tons (50,000 lbs.)

S-300 ASPHALTIC CONCRETE

2. 300.12. Revised 12 to the following: Weather Limitations
Placement of bituminous material shall not be permitted within 24 hours of a rain event. Weather limitations in Section 611.3(b) of the Standard Specifications shall apply except that the following table shall be used.

S-507 PRECAST CONCRETE BOX CULVERT

3. Replaced ASTM C 850 and C 789 with C 1577.

S-511 STORM SEWERS

4. Added I: **Concrete pipes used as outlet pipes from wetponds, wetlands and lakes, shall use synthetic rubber "O-ring" gasketed joints (APWA-KCMO 2602) O-ring type, circular cross section or "Profile" gasketed joints, non-circular section, conforming to ASTM C1619.**

S-512 UNDERDRAINS

5. 512.A. Added Type H pipe.

S-800 TRAFFIC SIGNALS

6. 800.A. created new 42. All signalized intersections shall include a battery back-up system.
7. 800.A. Revised 41 to the following: The actuated controller shall be a **Rack Mount ATC Cobalt-C controller manufactured by Safetran** and shall include the current firmware that is compatible with Operation Green Light (OGL).
8. 800.A. Revised 24 to the following: Pedestrian push buttons shall be audible and shall be direct-push, contact-type with a bull-dog style. Each push button shall be a removable contact assembly mounted in a durable yellow case. Contacts shall be normally open, entirely insulated from the case and operating button, and have connecting terminals. The operating button shall be brass or another corrosion resistant metal alloy and shall be sturdy. The operating voltage shall

not exceed 18 volts. The entire assembly shall be weatherproof, vandal-resistant, secure against electrical shock to the user, and of such construction as to withstand hard usage. The pedestrian push button shall be mounted directly to the pole in a watertight assembly and **shall be the large button type meeting ADA requirements. If the reach for the pedestrian buttons exceeds 10 inches, the contractor shall use a pushbutton extender.**

9. 800.A. Revised 35 to the following: The service enclosure shall be a combination meter socket breaker box, raintight enclosure equipped with a 100-amp main breaker and a 50-amp traffic signal breaker to be operated at 120 volts AC. The unit shall be capable of receiving 120/240 volt AC electrical line service. The unit shall be equipped with separate lockable compartments for the meter socket and the breaker box. Corbin locks shall be installed for parts of the enclosure that are accessed by the City. The unit shall be UL listed and the enclosure shall be natural aluminum. **As per KCP&L requirements, the Contractor shall install the power cable and conduit from the KCP&L service point to the meter.**
10. 800.A. Revised 45 to the following: The cabinet shall be a Model 332D **and shall include an 8-inch riser.** A Model 332 or 336 may be used only if specified in the accompanying plans. The cabinet shall be equipped with the appropriate number of the following equipment to allow for the traffic signal operation as shown in the accompanying plans:.....
11. 800.B. Created new 25: **Detector loops shall be installed in the asphalt base course prior to the placement of the asphalt surface course.**

S-801 PAVEMENT MARKINGS

12. Revised A.2 to the following: Prior to the installation of the pavement markings, the Contractor shall remove all existing pavement markings not designated to remain (removal to be by shot blasting or grinding, as directed by the Engineer). **All blasting and grinding debris, including dust, shall be immediately removed and hauled away, as directed by the Engineer.** Any appreciable damage or different appearance from the surrounding surface shall be repaired by the Contractor, at his expense, by methods approved by the Engineer. In addition, any existing markings that are damaged or obscured by the construction process shall be repaired or replaced, as directed by the Engineer.
13. Revised I.1 to the following: Pavement marking paint shall only be **used with prior approval,** when specified and approved by the Engineer as temporary pavement markings when ambient and surface temperatures prevent the Contractor from properly installing permanent pavement markings, as directed by the Engineer. Once the proper ambient and surface temperatures are reached, the Contractor shall remove the temporary pavement markings and shall install permanent pavement markings as illustrated on the plans. Pavement markings that are installed in parking lots shall be white in color and shall have a minimum 4" width.

S-803 PERMANENT SIGNING

14. Added the following to A.5: **If the greenspace between the back of curb and the edge of the sidewalk is not wide enough to accommodate the advance street name sign and if there is minimal right-of-way behind the sidewalk to place the sign, the advance street name sign shall then straddle the sidewalk. The sign posts shall be located at least one foot (1') from the edge of the sidewalk to the sign posts. Additionally, the bottom of the sign shall be a minimum of 8 feet from the top of the sidewalk to the bottom of the sign.**