



**To:** Kathleen Tropa, City Manager  
**From:** Alan Mitchell, City Engineer *AM*  
**Prepared By:** Thomas Martian, Project Engineer  
**Subject:** Standard Specifications Revision Summary

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This information is to support the requested council action to adopt the new City Standards. We'd be happy to sit down and go through these with you.

***Purpose of the specification's revision:***

- Last update was 2016. Methods, applications, materials, and design criteria has changed. Such as storm drain materials, the use PVC C900 vs C905, landscape materials, LED lighting, and testing of the utilities. The use of recycle material and SWPPP mandates.
- Consolidation of specifications to be more transparent to Engineers, Developers and Contractors.  
For years the City, Design Engineers, Developers and Contractors has had a hybrid of specifications to draw from. The City Improvement Standards and Details, Caltrans Specifications, Yolo County, Woodland as well as the reference to Sacramento County Construction Specifications. Many times, confusing to those using. Many Engineering firms would place notes on plans creating inconsistency in the infrastructure by the interpretation of various reference specifications. Placing more work load and review on staff.
- Missing Construction Sections, such as the Water and Landscape Specifications.
- Modifications to all Construction Specifications for installation, materials, as well as testing.
- Request from Engineering firms and contractors for a one place reference.

***Significant changes and revisions:***

- Consolidate in one standard specification:
  - Improvement Plans**
  - General Provisions**
  - Construction Standards**
  - Construction Detail**
- **Improvement Standards:**  
Overall review for compliance to City and current industry standards.  
Updated Section 5 LED components and design
- **General Provisions:**  
Overall review for compliance to City and industry standards.  
Removed Section 13 duplication and shown in the Construction Standards
- **Construction Standards:**  
Added Section 1: Testing of Materials  
Modified Section 2: Earthwork  
Added Section 3: Manholes  
Added Section 4: Portland Cement Concrete

- **Construction Standards (cont.):**
  - Added Section 5: Base Material
  - Modified Section 6: Asphalt Concrete
  - Added Section 7: Adjust of Iron
  - Modified Section 8: Curbs, Gutter and Sidewalks
  - Added Section 9: Trench Excavation
  - Modified Section 10: Storm Drain
  - Modified Section 11: Sanitary Sewer
  - Added Section 12: Water Distribution
  - Added Section 13: Planting
  - Added Section 14: Irrigation System
  - Modified Section 15: Nonpotable-Water Distribution
  - Modified Section 16: Nonpotable-Irrigation
  - Added Section 17: Lighting
  - Added Section 18: Reserve (future Street Signal Lights)
  - Modified Section 19: Traffic Striping
  - Modified Section 20: Signs
  
- **Construction Details:**
  - Revised Detail S-2 Curb, Gutter and Sidewalk
  - Added Detail S-3 Accessible Ramps
  - Revised Detail W-6 Residential meter
  - Revised Detail W-6A Commercial
  - Revised Detail W-6B Metered Water Services
  - Revised SD-12 Curb Inlet
  - Added Detail L-1 Irrigation RCV
  - Added Detail L-2 Controller
  - Added Detail L-2A Controller Cabinet
  - Added Detail L-3 Rotor
  - Added Detail L-3A Pop-up
  - Added Detail L-4 Quick Coupler
  - Added Detail L-5 Thrust Block
  - Added Detail L-6 Planting
  - Added Detail L-7 Mow band
  - Added Detail L-8 Bubbler

***Purpose of future amendments by the City Engineer:***

The request for the City Engineer to approve future amendments is typical for simple changes as a result in a change of methods, substitution or approved equal of material selection, lack of quality or availability of materials, durability of materials, modifications to details, revision to designs, safety, and regulatory changes as needed. The changes would be coordinated with the Public Works Department and City Manager, prior to amendment, and can be taken to Council if determined to be substantial with cost-ramifications. Please advise.