

CITY OF ST. CHARLES

ENGINEERING DESIGN

STANDARDS

DEPARTMENT OF

PUBLIC WORKS



Revised 2014

The Engineering Design Standards for Public Works are divided into three subsections:

Standards

Following are the minimum engineering design standards and construction specifications that must be met for each project. As identified in the City's Project Management Manual (PMM), each project should also identify the design standards in the Project Charter:

- General:
 - Article III. of Chapter 405 in Title IV of the St. Charles City Code
 - Chapters 505 and 510 of the St. Charles City Code
 - Title VII of the St. Charles City Code
 - Other City Codes that may govern Engineering Design
 - City of St. Charles Public Works Department Final Design Checklist
- Transportation:
 - St. Louis County Highway Department Design Criteria Manual 2011
 - AASHTO Policy on Geometric Design 2011
 - AASHTO Roadside Design Guide 2011
 - Manual on Uniform Traffic Control Devices 2009 with 2012 Rev. 1 & 2
 - ADA Standards for Transportation Facilities 2006
- Storm Water:
 - MSD Plan Preparation Guidelines 2006
 - MSD Standard Construction Specifications 2009
 - City of St. Charles Pump Station Design Standards 2014
- Sanitary
 - Missouri DNR Wastewater Design Guides 10CSR-20-8
 - Ten States Standards 2007
 - City of St. Charles Pump Station Design Standards 2014
- Water
 - City of St. Charles Standard Specifications for Construction of Public Water Mains 2014

- Missouri DNR Minimum Design Standards for Missouri Community Water Systems 2013
- Ten States Standards 2007
- AWWA Manuals of Water Supply Practices 2012

Permits/Outside Agencies

Permitting, funding, or other outside agencies having jurisdiction may have specific requirements for Engineering Design. Common permits and approvals are included in PMM Section 8.1 PERMITTING but there could be other permits not listed depending on the scope and nature of the individual project. Each project shall identify additional engineering design standards required by permitting and/or outside agencies.

Specialized

When applicable, specialized engineering design standards, requirements, or considerations shall be identified for each project within the applicable project charter.