Proposed Updates to City of Sioux Falls Engineering Design Standards (EDS)

City Council Meeting
December 4, 2018
Engineering Design Standards

• Standards for the construction of public improvements
• Minimum pipe sizes, depth of cover of pipe, fire hydrant spacing
• Reviewed annually and updated accordingly
• Ordinance 96.025 requires City Council approval by resolution
• Reviewed and recommended by IRAB
Infrastructure Review Advisory Board

- Sioux Empire HBA
- Contractors Association
- Private Utility Companies
- Member at Large
Advises the Mayor regarding fees and regulations relating to engineering design standards, subdivision and infrastructure construction requirements, excavation and grading, and subdivisions with the intent of recommending the elimination of unnecessary regulations and the adoption of only those regulations necessary for the health, safety, and welfare of the citizens of Sioux Falls.
Section 8.4.7 and Table 8.1: Revise minimum street grade to 0.6% to improve street drainage.
Chapter 10: Water Mains

• Updates focused on:
  – Water service line materials
  – Fire hydrant location and spacing
  – Coordination with:
    • Sioux Falls Water Maintenance Team
    • Sioux Falls Fire & Rescue
    • Local Material Suppliers
    • American Water Works Association (AWWA)
Chapter 10: Water Mains

• Fire hydrant location and clearance revisions
  – Section 10.2.1: Hydrant spacing in accordance with fire code
  – Section 10.2.6: Hydrant clearance language
Chapter 10: Water Mains

- Service line language updates
  - Section 10.7.7: Service line material requirements to industry standards (AWWA)
  - Section 10.7.9: Disconnection of retired services at the main
Chapter 11: Drainage Improvements

• Updates provide additional flexibility with stormwater ponds
• Reviewed by an IRAB subcommittee
  • Residential and commercial developers and consulting engineers
Chapter 11: Drainage Improvements

Hybrid Platting Fee

- Reflect development trends
- Improve the financial stability of the drainage program
Chapter 12: Erosion and Sediment Control

- SDDENR updated Construction Permit language
- Updates incorporate SDDENR permit language
Chapter 13: Plan Submittals

- Housekeeping update as result of EDS
  Chapter 11 updates
Chapter 15: Roadway Lighting

• Updates focused on:
  – Luminaires
    • Type based on street classification
    • Connection
  – Coordination with:
    • Sioux Falls Light & Power Team
    • Local contractors
    • Development Engineers
Chapter 16: Accessible Sidewalk Requirements

- Updates requested by Federal Highway Administration (FHWA)
- Section 16.1.3: Added reference to International Building Code (IBC)
- Section 16.6.7: Added guidance from IBC for ramps that are not adjacent to streets
Chapter 16: Accessible Sidewalk Requirements

• Section 16.8.2: Clarification of push button location and reach requirements.
  – Includes recent Manual on Uniform Traffic Control Devices (MUTCD) guidance.

• Section 16.6.4.3: Added guidance on pedestrian curb ramps at “T” intersections.
Conceptual “T” Intersection
Questions?