



Memorandum

To: Mayor Olson and the Santaquin City Council
From: Jon Lundell, P.E., City Engineer
Date: January 9, 2025
Re: Santaquin City Standards and specifications update

Periodically Santaquin City's Standards and specifications must be updated to address issues discovered with previous construction materials and methods and to bring specifications in line with modifications to Utah State Code.

The current update addresses the following:

1. Division 1 – General Requirements: Section 1.23 - The proposed change is to clarify testing requirements for roadway subgrade materials.
2. Division 3 – Pressurized Irrigation: The proposed change updates include the following:
 - a. Section 3.04.G - Add the requirement for continuity testing of required tracer wires.
 - b. Section 3.05.F - Change the irrigation meter box lid to a purple color to match Utah State Administrative rules regarding reuse water (Utah Administrative code R317-3-11-8.a).
 - c. Section 3.05.F - Adds language for clarification of conduits connecting culinary water and pressurized irrigation meter boxes.
3. Division 3A – Culinary Water: The proposed change updates include the following:
 - a. Section 3.04A.I - Add the requirement for continuity testing of required tracer wires.
 - b. Section 3.04A.D - Adds language for clarification of conduits connecting culinary water and pressurized irrigation meter boxes.
 - c. Section 3.04A.D - The proposed change requires 4" meter vaults to have drain rock instead of a concrete floor
4. Division 6 – Fire Hydrants: The proposed changes include the following:
 - a. Division 6.06 - Proposed change to require Fire Hydrants be located outside of the clear view area as defined by city code 10.16.090
 - b. Division 6.06 - Proposed change to require a concrete maintenance pad around the base of fire hydrants
 - c. Division 6.06 - Proposed change to require an access box for the locator wires at the fire hydrant
5. Division 10 – Surface Improvements restoration: The proposed change requires asphalt joints to run diagonally across the roadway.

6. Division 13 – Storm Drain: The proposed changes include the following:
 - a. Section 13.04 – Require flowable fill between manholes and curb inlet boxes that are located close together.
 - b. Section 13.07 – Clarify inlet grate and frame type and specify minimum inlet opening
 - c. Section 13.09 – Add inspection port requirements
7. Division 16 – Detention Basin: Proposed change 16.05 topsoil to require fractured rock surface in detention basins
8. Division 20 – Landscaping: Proposed to change the following:
 - a. 20.02 - Topsoil requirements
 - b. 20.04 – Basic irrigation requirements
 - i. Section 20.04.A - Change Lateral sizing to a minimum of 2” diameter
 - ii. Section 20.04.A - Must follow improvement drawings and specifications.
 - iii. Section 20.04.A - Install unions at all valves, filters, connections, etc.
 - iv. Section 20.04.C – Swing joints required for all 1” and greater pipe
 - v. Section 20.04.D - Specified a WeatherTrak control 2-wire system and housing
 - vi. Section 20.04.J – Isolation Valves at all sprinkler valves
 - vii. Section 20.04.L – All filters to be Amiad filters and an filter 4” or larger requires a manual flush drain valve.
 - c. Section 20.07 Trees – Deep root irrigation system required for all trees
 - d. Add section 20.08 – Recreational facilities
 - i. Pour in place surfaces
 - ii. Pavilion requirements.
9. Standard Drawings
 - a. All Drawings: Update the title block
 - b. W3 – update label for a double check valve to be testable
 - c. PI2 – Update label to match text
 - d. W3 – Added pipe between meter boxes to match text
 - e. W7 – Remove label that states 2” PVC blow off assembly.

These updates will address concerns expressed by Santaquin City Public Works and the recent changes to the Utah State Code.

The updates have been reviewed by the Planning Commission and the following motion was made at the January 16th Planning Commission meeting: Commissioner Hoffman made a motion to forward a positive recommendation to the City Council for approval of the proposed Standard Specifications and Drawings update. Commissioner Weight seconded the motion.

Recommended Motion:

The City Council approve the proposed Standard and Specifications update.