City of Salem

Stormwater Advisory Group – Meeting #4

Monday, June 3, 2024, from 11:30 a.m. to 1:00 p.m.

Meeting will be conducted both in-person and via Zoom

In-Person Location: City Hall, Public Works Department, Traffic Control Conference Room, 555 Liberty Street SE, Room #325

Zoom: https://us02web.zoom.us/j/89258143469

Si necesita ayuda para comprender esta información, por favor lame 503-540-2371

PARTICIPANTS

Stormwater Advisory Group (SWAG) Members

Councilor Linda Nishioka, Ken Bierly, Gene Bolante, Natalie Janny, Matt Knudsen, Bill Lawyer, Rick Massey, Tyler Roth, Josh Wells

City Staff & Consultant Support

Robert Chandler, Allen Dannen, Fred Wilson, Robin Dalke, Laurel Christian, Don Whitehurst, Anita Panko, Nitin Joshi, Keith Kuenzi, Dwayne Barnes, Heather Dimke, Kyle Cochran, Angela Wieland, Jessica Christofferson, Brandon Teetsel, Rose Horton

AGENDA

1. Welcome
2. Meeting #3 Recap & Follow-Up Questions
3. Stormwater Related Definitions (Salem Revised Code & Stormwater Design Standards)
4. Outline – Reorganized Stormwater Design Standards

ADDITIONAL MEETING DETAILS

Stormwater Advisory Group meeting documents and updates will be available at this link: https://www.cityofsalem.net/government/boards-commissions/other-advisory-groups/stormwater-advisory-group

Point of Contact: Questions or comments can be directed to Robert Chandler, Assistant Public Works Director, RChandler@cityofsalem.net or 503-588-6008.

Special accommodations are available, upon request, for persons with disabilities or those needing sign language interpretation, or languages other than English. To request accommodations or services, please call 503-540-2371 (TTD/TTY 503-588-6439) at least two business days in advance.

It is the City of Salem's policy to assure that no person shall be discriminated against on the grounds of race, religion, color, sex, marital status, familial status, national origin, age, mental or physical disability, sexual orientation, gender identity, and source of income, as provided by Salem Revised Code 97. The City of Salem also fully complies with Title VI of the Civil Rights Act of 1964, Americans with Disabilities Act of 1990, and related statutes and regulations, in all programs and activities.

STORMWATER ADVISORY GROUP

MEETING NOTES – May 8, 2024

City of Salem, Public Works Traffic Control Room (#325) & Via Zoom

MEMBERS PRESENT

Natalie Janney, Multi-Tech Engineering
Rick Massey, Richard Massey Construction
Josh Wells, Westech Engineering
Bill Lawyer, City of Keizer
Gene Bolante, Studio 3 Architecture
Ken Bierly, Glenn-Gibson Watershed Council

STAFF/CONSULTANT SUPPORT PRESENT

Robert Chandler, City of Salem
Allen Dannen, City of Salem
Don Whitehurst, City of Salem
Fred Wilson, City of Salem
Anita Panko, City of Salem
Robin Dalke, City of Salem
Heather Dimke, City of Salem
Kyle Cochran, City of Salem
Keith Kuenzi, City of Salem
Brandon Teetsel, Otak
Angela Wieland, Brown & Caldwell
Amory Cervarich, Brown & Caldwell

1. Welcome & Introductions

Staff, consultants, and Stormwater Advisory Group participants introduced themselves for the record.

2. Meeting #2 Recap

An updated draft of the Site Assessment & Planning Checklist, a draft copy of a revised Appendix 4A (Stormwater Design Standards), and a draft copy of an updated Simplified Sizing Form were provided as handouts to the group.

There were a couple of follow-up questions (from Meeting # 2) that were sent out via email to the Stormwater Advisory Group. One of the questions was concern related to the proposed % set aside area (20%) that was included on the Site Assessment Checklist. This is an option for developers that are not submitting engineered designs at Land Use. Angela Wieland (B&C) explained that there was previously a 10% set aside option in Appendix 4E of the Stormwater Design Standards (Design Standards). That 10% was not necessarily reflective of the current flow control standard (which includes a requirement to detain up to the 100-year event) or reflective of the updated infiltration requirements in the City's 2021 Municipal Stormwater Permit (Permit). The revisions that are currently underway aim to ensure compliance with the Permit and with the City's standards early in the development process (at Land Use).

The 20% set aside option was proposed based on an initial review of recently constructed stormwater facilities providing both water quality and flow control (and not requiring a design variance). The intent of the proposed percentage was to help encourage more detailed design information in lieu of the set aside options. After additional discussion, staff have proposed to

reduce this down to 15%. It was noted from the Group that 15% is still a substantial set aside in comparison to the footprint sizing that they are seeing and considering the value of land. It was further noted that the costs for completing engineered designs at land use can be prohibitive for some, increasing the importance of having a % set aside option that works. Questions and concerns were raised regarding continued interpretation of the Design Standards and the frequent need for design exceptions. Additional questions were raised on the requirements to size based on predeveloped conditions. It was confirmed that the definition of predevelopment (for purposes of facility sizing) is based on the requirements in the City's Permit to address hydromodification considerations and proactively combat downstream capacity limitations.

Staff will reconsider the value for the % set aside.

The second question was regarding the allowable infiltration rate through the growth media. Angela explained that staff were not anticipating a need to change the existing rate of 2"/hour. It was noted that other Cities do have higher infiltration rates and Salem's could likely be adjusted. For example, Corvallis and Albany are using 3"/hour based on recent analysis. Staff are open to changing Salem's infiltration rate to 3" if the City's specs for growing media are consistent with Corvallis and Albany (B&C and Otak have confirmed consistency).

a. Stormwater Design Standards – Appendix 4A (Submittal Requirements)

The proposed revisions to Appendix 4A (Handout 1) include details on the new project Tiers (1-4) and the associated requirements for each Tier at Land Use. This draft does not yet clarify that projects using the % area set aside will not be required to submit a preliminary stormwater report but will still need to submit a completed Site Assessment Checklist (with the requested attachments). There are also new details on the submittal requirements for a preliminary site plan, the preliminary stormwater report, and for final design. The final Site Assessment Checklist and Simplified Sizing Form will be included in Appendix 4A. There was concern with the language requiring all requested details on a single preliminary site plan. This will be further clarified to allow for the details to be submitted on multiple plans.

There was a question on the requirement for an Engineers Final Statement, which is rarely used. Staff confirmed that this can be removed as long as there is an Engineered Stamp and signature.

Clarification on when landscape plans need to be submitted was requested. Staff confirmed that once the size of the stormwater facility has been signed off on then the planting plan needs to be submitted. Staff can add a note to clarify the timing of this in the Appendix.

b. Site Assessment & Planning Checklist

The checklist (Handout 2) that was provided shows the changes that were made to the form since the last meeting. These edits were primarily language adjustments and clarification points. It was noted by the group that a full review at Land Use would be nice. Staff shared that the City is

not presently recovering the costs associated with current reviews. That said, if a new fee was created for this service, then this could be an option.

c. Outstanding Questions

The outstanding questions from the last meeting were discussed as detailed above.

3. Stormwater Facilities List

Angela shared presentation slides showing the final list of approved stormwater facilities for the Design Standards. This list is mostly unchanged from the present list of facilities, with some refinement of the names, clarification of the facility types that are considered Green Stormwater Infrastructure (GSI), clarification of the facility types used for water quality treatment and flow control, and identification of the types that can be sized using the simplified method. Impervious area reduction techniques (pervious pavement and green roofs) have also been highlighted. Stormwater reuse and trees will no longer be included as impervious reduction techniques. Leach Lines are being added to the list for Single-Family Residential projects.

4. Facility Sizing & the Simplified Method (for projects < 10,000 square feet)

A new Simplified Sizing Form (Handout 3) with updated facility sizing calculations has been drafted to ensure that the water quality and flow control performance standards are being addressed through this method. The water quality-based sizing can be used for Single-Family Residential projects and Large Projects where the Engineered Method has been used to confirm flow control sizing. It was clarified that the 10,000 square feet or less (new or replaced impervious surface area) applicability applies to an entire project and not per each lot.

Amory (B&C) provided an overview of how the sizing factors for the new form were developed. A spreadsheet tool (originally developed for the City of Albany) has been adapted for Salem and is based off the unit hydrograph method and the Type 1A precipitation. The tool factors in facility characteristics based on Salem's Design Standards. The tool can then be run for full infiltration (retention) or as a flow through facility. Several slides were shared that provided details on the inputs and considerations used in the sizing tool.

Robert Chandler asked the Stormwater Group to consider and share through email any best management practices that they have picked up from other jurisdictions.

The meeting adjourned just before 1:30 p.m.