

PAC Meeting #4

List of displays for stormwater/urban design discussion

Presentation Outline

For the stormwater design discussion, we will present and discuss the following:

1. Examples of built projects
2. The median which will provide significant stormwater mitigation, to what degree depends on the final roadway cross section and other stormwater tools
3. Plants proposed for stormwater facilities and potential designs with them

After we present each part, we will have a brief discussion where you can tell us what you think. I'm hoping our presentation is done quickly since you have these materials ahead of time. Please come prepared with comments, questions, opinions, likes, and dislikes to share with the other PAC members and the design team.

To organize the presentation boards we are beginning to number them 4.x to help identify which PAC meeting they first were shown and to refer to them in the following text. (4 means PAC #4).

1. Built Examples of Stormwater Facilities :

(4.3) Tigard Main Street: This project has been referred to and we believe the PAC has visited it. The facilities are mostly in furnishing zones and curb extensions and wider than our we will be able to do in our sidewalk furnishing zone where we will need stormwater mitigation. However, there are elements we could/will incorporate. The facilities that have stone at the edges and in the facilities are on Burnham which is adjacent to Main Street. **For discussion during the PAC meeting, what elements do you like/dislike? As an aside, do you think about the art on the light poles?** Here are some observations:

- Applicable elements for the BFR project would be 1) linear swales in the furnishing zone, but these are wider than what BFR will have room for within the standard 9' sidewalk, 2) plant species, 3) structure design (maybe)
- Natural stone used at edges of facilities on Burnham, adjacent to Main St.
- The streetscape has art elements integrated with the lighting

(4.4) 124th: We believe PAC members have visited this project too. The median and planting strip on one side of the street has stormwater treatment facilities. No development currently exists next to the right-of-way, so you have to imagine other elements of a vibrant commercial street in this example. **For discussion during the PAC meeting, are there likes and dislikes about the configuration of the design? Specifically, is the planting design too dense, just right or other?** Here are some observations:

- Works very similar to the 'shed' road cross section under consideration for BFR, the median treats the higher half of the road and the lower half is treated in the planter strip/furnishing zone next to the sidewalk.
- Planting design uses a small palette of common plants (both stormwater selections and upland appropriate) in repetitive patterns.
- Not intensely maintained and we did not see evidence of supplemental watering by an irrigation system (but there could be one).

(4.5) Division Street: This project incorporates narrow stormwater facilities that will be necessary on BFR at some locations. Some of the facilities integrate public art. Also shown are

wider facilities at curb extensions with bridge elements that may be integrated at pedestrian crossings in the median. These elements seem to coexist well with a very vibrant revitalized main street. **For discussion during the PAC meeting, are there likes and dislikes about these stormwater elements, the art, and the plantings (less than 1 year old).** Here are some observations:

- Integrates stormwater facilities in curb extensions and furnishing zones along corridor.
- Original plant palette was more ambitious, refined (reduced variety) by BES during review.
- Crosswalks integrated with facilities, this could be used at BFR at the median pedestrian crossings.
- Art elements integrated with stormwater facilities.
- Narrow facilities along south side would be similar to BFR sidewalk furnishing zone facilities.

(4.6) Sandy Blvd: Included to show larger stormwater facilities integrated with public open space. **For discussion during the PAC meeting, are there likes and dislikes, general comments?** Here are some observations:

- Created larger 'rain gardens' at intersections by removing unnecessary road paving.
- Also creates public open space (some would be more utilized as public space when adjacent properties redevelop to a more compatible use).
- If BFR needs additional treatment area, rain gardens can be integrated in expanded sidewalk areas (LO acquires private property).

(4.7) Montgomery Street: Included to show another design for a narrow facility. This one is not so recognizable as a stormwater facility, it looks like a lush landscape. **For discussion during the PAC meeting, are there likes and dislikes, general comments?** Here are some observations:

- Linear 'spine' of stormwater facilities that help reinforce an east-west pedestrian corridor through the heart of the PSU campus.
- The narrow facilities fit into the pedestrian environment appearing more like landscape elements rather than deep stormwater facilities. Keeping them shallow at the surface was the key, but they have capability to handle the entire plaza surface runoff.
- Plantings are simple, but planted densely to provide lush greenery. Quaking Aspen trees were used and adapted quickly, but may have long-term stability problems in an artificial environment of a treatment facility.

2. Median and Other Stormwater Tools

Board 4.13 shows an updated median at the study area south of Byrant Rd integrating stormwater treatment areas. Board 4.1 includes other stormwater tools like planters along the sidewalk, median examples, rain gardens and permeable paving.

Discussion/question: 1) general comments, 2) are we on the right track with the median?

3. Stormwater Plants

See Board 4.2, we illustrate three alternatives to reinforcing identity via planting schemes, 1) native/natural (supported in the refinement plan), 2) farm, 3) contemporary. See Boards 4.8

through 4.12. Lake Oswego will adopt the Portland BES plant list for stormwater facilities as a base list and add other plants for character in there updated manual. Specific trees, shrubs groundcovers from Portland BES list are shown on the boards.

Discussion/questions: 1) The native/natural planting scheme is what we think you have voiced as a preference to reinforce the identity of the area. Is that still valid?, 2) What do you think of the plant list? 3) general comment and discussion