

**COMMITTEE TO PROTECT BELVEDERE'S  
SEAWALLS, LEVEES, AND UTILITIES  
MONDAY, JUNE 3, 2019, 5:00 P.M.  
BELVEDERE CITY HALL - COUNCIL CHAMBERS  
450 SAN RAFAEL AVENUE  
BELVEDERE, CALIFORNIA**

**MINUTES**

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**COMMITTEE PRESENT:** Denise Bauer, Justin Faggioli, Glenn Isaacson, Ken Johnson, Nancy Kemnitzer, Bob McCaskill, William Rothman, Larry Wheat, Sally Wilkinson, and Chair Jim Lynch

**COMMITTEE ABSENT:** Andrew Allen

**OTHERS PRESENT:** City Clerk Alison Foulis, City Manager Craig Middleton, Stetson Engineer James Reilly, Miller Pacific Engineer Scott Stephens, and Public Works Manager Robert Zadnik

**CALL TO ORDER OF REGULAR MEETING**

The meeting was called to order at 5:03 PM by Chair Lynch.

**OPEN FORUM**

No one wished to speak.

**SCHEDULED ITEMS**

**1. Approve minutes of the May 28, 2019, meeting.**

The minutes were approved as presented.

**2. “Integrated Planning and Long-Range Perspective” presentation and discussion led by Matthijs Bouw, Founding Principle of One Architecture.**

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Chair Lynch introduced the speaker, Matthijs Bouw, and welcomed him to the meeting. Mr. Bouw discussed his work in the field of resiliency and coastal adaptations. Mr. Bouw shared his current project, The Big U, an integrated coastal protection project in Manhattan, NY, that began following

the Hurricane Sandy extreme storm event. Mr. Bouw emphasized the importance of the potential dual-use of flood structure, integrating human activity into project proposals, and careful consideration of the future adaptability of a project.

The Committee asked questions of Mr. Bouw regarding the alternatives to barriers in a project design, the Resilient by Design Bay Area Challenge, and the reliability of deployables (such as aqua fences or dams) in long term solutions. Mr. Bouw commented that, while the City will likely need to look at barriers for its initial project, it should also consider which design has the most potential for co-benefits and adaptability in the future. When asked about strategies for establishing community consensus on the appropriate project design, Mr. Bouw encouraged public discussion on the benefits, feasibility and risk reduction associated with certain designs as well as easily understandable graphic materials.

Chair Lynch called for public comment and Thomas Cromwell asked about the durability and reliability of deployables over time. Mr. Bouw responded that there is some uncertainty with long term use of deployables and the Committee discussed the topic further. The Committee confirmed with Stetson Engineer James Reilly that the Tiburon barrier portion of the proposed project could be delayed to allow time for more consideration and Mr. Reilly confirmed but noted the extended timeline was not very long.

Chair Lynch and members of the Committee thanked Mr. Bouw for his presentation.

**3. Discussion and review of various proposed approaches and design alternatives developed to protect the City from flooding and sea level rise and consideration of selecting a combination of protection measures for recommendation to the City Council.**

Stetson Engineer James Reilly led the Committee in discussion on some of the various design alternatives proposed at the four flood pathways in the City.

San Rafael Avenue Levee

The Committee discussed and asked questions about the Alt. 1A and Alt. 2 proposals. Concerns raised about Alt. 1A included neighbor privacy and view blockage, the need for a child-safe railing which would block additional views, the added weight of the elevated path which could lead to roadway stability issues if built up further, and the more difficult adaptability to future sea level rise compared to Alt. 2. The Committee also discussed sheet piling, construction estimates, risk probabilities, and the history of overtopping events on San Rafael Avenue since the rip rap was installed in 1984.

Committee Member Faggioli left the meeting at 6:43 PM.

West Shore Road/San Rafael Avenue Intersection

The Committee reviewed two new proposed alternatives – Alt. 4 which continues the San Rafael Avenue seawall behind the first 6-7 properties along West Shore Road and Alt. 5 which builds a

low wall along a median on the first stretch of West Shore Road. The Committee discussed the West Shore Road residents' likely preference for Alt. 4 and asked questions about the seismic benefits of each alternative. The Committee also considered the use of deployables as a temporary stop gap before a larger project potentially involving walls and flood gates was pursued.

**4. Wrap up and review of agenda for next meeting on June 6, 2019.**

Chair Lynch distributed a worksheet which he encouraged Committee Members to use in their review of the proposed design alternatives before the Committee meets again on June 6<sup>th</sup>.

**ADJOURN**

The Committee meeting was adjourned at 7:12 PM.

**THE FOREGOING MINUTES** were approved at a meeting of the Committee to Protect Belvedere's Seawalls, Levees, and Utilities on June 6, 2019, by the following vote:

**AYES:** Denise Bauer, Glenn Isaacson, Ken Johnson, Nancy Kemnitzer, Bob McCaskill, William Rothman, Larry Wheat, Sally Wilkinson, and Chair Jim Lynch  
**NOES:** None  
**ABSENT:** Andrew Allen and Justin Faggioli

**APPROVED:** /s/Jim Lynch, Chair

**ATTEST:** /s/Alison Foulis, City Clerk