From: Jacob Halverson < <u>jacob.halverson@mercerisland.gov</u>>

Sent: Thursday, January 11, 2024 1:46 PM

To: marianne@pluspermit.com

Cc: Ruji Ding <ruji.ding@mercerisland.gov>; 'John Byrne' <johnbyrne@groundsupport.com>

Subject: Re: Follow-up Question _ Shoring Outside of ROW Permit 2109-050

This would be acceptable and would close out this comment for building review as proposed.

Thanks,

Jacob Halverson

Plans Examiner

City of Mercer Island – Community Planning & Development

206-275-7718 | www.mercerisland.gov

From: marianne@pluspermit.com < marianne@pluspermit.com >

Sent: Thursday, January 11, 2024 1:07 PM

To: Jacob Halverson < jacob.halverson@mercerisland.gov >

Cc: Ruji Ding <ruji.ding@mercerisland.gov>; 'John Byrne' <johnbyrne@groundsupport.com>

Subject: RE: Follow-up Question _ Shoring Outside of ROW Permit 2109-050

Thank you for your response, Jacob. Our shoring engineer's response below. Thoughts?

We request the reviewer look at the drawings for the planned anchor length, as calculation results are rounded. The planned anchor length is 35 feet and the horizontal projection is therefore 31.7 feet. That is what will actually be installed.

We are planning to shorten this anchor (W7) a little further as we deal with the W8 and N1 anchors as well. The anchor lengths specify a design load and a bond length and that is the direction that the installer needs to follow and demonstrate (re: why the plans should be reviewed instead). When we use a design pullout resistance in our calculations, it is permissible to round the numbers (design loads and bond lengths) in a manner that might require a higher bond strength than used in the calculations. The reason for this is that every anchor is individually tested and so as long as the required bond for that anchor is demonstrated in the field, it matters not what the calculations indicate.

As far as W8 is concerned, we are going to revert to a steep bar anchor (that permits the use of a shorter minimum unbond length) and also use a higher bond strength. This will keep the W8 anchor out of the ROW. For N1, we are going to replace the small anchored soldier pile with a longer and much heavier cantilevered soldier pile. This will provide a design that keeps all anchors out of the ROW.



From: Jacob Halverson < jacob.halverson@mercerisland.gov >

Sent: Thursday, January 11, 2024 10:43 AM

To: marianne@pluspermit.com; 'John Byrne' < johnbyrne@groundsupport.com

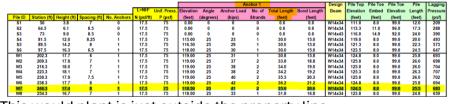
Cc: Ruji Ding < ruji.ding@mercerisland.gov >

Subject: Re: Follow-up Question Shoring Outside of ROW Permit 2109-050

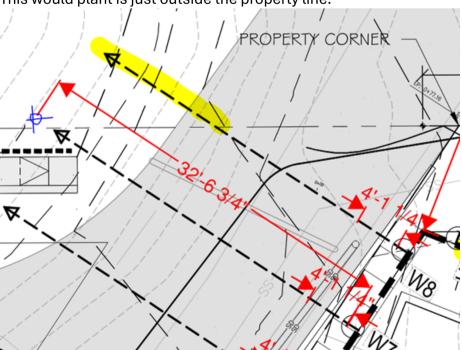
Thanks Ruji, Hi Marianne,

W7 appeared to extend over the property line.

According to the calc packet the shoring designer specified 35.6 length of the anchor. At the proposed 25 deg. down angle it would land around 32.5 in length along the horizontal.



This would plant is just outside the property line.



Revising the design to be wholly out of the property line and place a plan note that states anchor will not be placed in the r.o.w. would close out this comment.

Thanks,

Jacob Halverson

Plans Examiner

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