From: Wiedemer, Ashley
To: Ellis Koch
Subject: RE: Glen Isle: Cut-Fill Information
Date: Thursday, September 04, 2014 10:31:00 AM

Very quick glance of summary does not show Blocks D and I.

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From: Ellis Koch [mailto:ellis.koch@gmail.com]
Sent: Thursday, September 04, 2014 10:12 AM
To: Heidi-Marie Dudek, P.E.; Wiedemer, Ashley; Bridget K. Boyd
Cc: Gerard Burke, P.E.; Thomas C Graham; Shashank Nemichand; Myralee Machol; Frank Devita; Gregory J. Allen; Morgan G. Graham Esq.
Subject: Glen Isle: Cut-Fill Information

We have revised the cut-fill maps and table to provide the additional information and clarifications you requested. The City may still have additional comments that will be addressed as received.

Three figures and one table are attached. The attachments represent the cut into residual soil that is anticipated will happen when the site is rough graded to an elevation that doesn't include the 2-ft of clean fill or the constructed elements (roads, sidewalks, slabs, etc).

The utility runs and building slabs are shown on all of the figures. Utility runs that are in the red areas will encounter residual soil. Conversely, all other utility runs will not.

Figure 1a is a graphical presentation of the areas that will be cut or filled. It identifies the areas by color with red being a cut and blue a fill. White indicates neither a cut or fill.

Figure 1b is a map that shows the calculated depth of fill or depth of cut. It corresponds to figure 1a; and the numbers are printed in red with a "C" suffix to denote a cut and blue with an "F" suffix for a fill. Green numbers are an artifact of the prediction software. Green is used when the net change is less than one foot. However, the suffices are printed to denote a fill or cut.

Figure 1 is an overlay of 1a and 1b.

The volume of residual soil excavated for utility trenches and rough grading is shown in the Table. It is divided into summaries for each Block and roll-up summaries for the properties defined in each environmental easement except for Anglers Club, and the pumping station., i.e., Li Tungsten OU-1; Captains Cove, Gladsky, and Doxey.

The Table only shows the excavation into residual soil for utilities and rough grading, and the fill needed to bring the sites up to the rough grade.

None of the maps nor table include the 2-ft of clean fill that will be placed over exposed residual soil nor the location of roads, sidewalks, pathways or other engineering controls that will cover the residual soil as specified in the SMPs.

Although we would like the information to completely represent the proposed subsurface construction activities, the information presented in the attachments is limited for the following reasons:

1. The proposed topography has been finalized for Blocks H and I and the promenade along the waterfront. Approximate land surface elevations had to be used for the other areas of the site.
2. The utility trenches and locations are finalized for Blocks H and I. Preliminary locations were used for the remainder of the property.
3. The estimating software compares the existing and proposed topography and calculates the cuts and fills based on internal algorithms that use rounding and approximation routines. The graphical representation of the results also uses blending techniques when moving from areas being cut to those being filled and may have pre-programmed instructions on how to represent these and other conditions.

For instance, Figure 1b is a map showing the actual vertical amount of cuts and fills. In general cuts are printed in red and fills in blue with each number having a suffix of either letter C or F. However, in areas that transition from a cut to a fill or vica versa, and the change is less than one foot, the color green is printed along with the appropriate suffix. We haven't found a way to override the way the data are printed.

4. The numbers printed on Figs 1 and 1b are at a spacing of 100-ft. The software can print an infinite number of elevations at a smaller and smaller grid scale. However, if a smaller scale is used, the numbers print over each other and are illegible. The 100-ft scale was chosen so that the reader can obtain numeric information on the cut or fill numbers and can see how the rough grading will be accomplished in a different format than used in Fig 1a.

I hope this revised presentation of the data provides a more clearer understanding of disturbance of the residual soil by the subsurface construction activities.

Please contact me if you have any questions.

Other notes:

The maps are optimized to be printed at 18x24 inches to show the utility trenches clearly.

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