

Fisher Vicki**RECEIVED**

From: Mary Foley [mfoley@RHAaIA.com]
Sent: Wednesday, July 16, 2008 11:07 AM
To: Fisher Vicki
Cc: Ty Holcomb
Subject: #6565 Rapid City, SD - Revised Renderings

JUL 16 2008

**Rapid City Growth
Management Department**

Vicki,

Attached are the revised renderings for the proposed Rapid City Sam's Club #6565. Here is a quick summary of how we have attempted to reconcile the Planning Staff's recommendations:

- Revised elevations of the car wash – Have added stone and cmu pilasters to west elevation of the car wash, and added elevations of the fuel station kiosk as requested.
- Roof Membrane Color– Roof Membrane color has not been changed. The high parapets screen the roof, so glare is not an issue. In addition, the white membrane has a significant impact, 10% reduction, of the total cooling load of the store. This is largely due to the fact that the white membrane has a high solar reflectivity. Changing from white to tan creates a drop by 30 points in the reflectivity of the roof membrane and would be a significant impact on the HVAC load for the store. White roof membranes also help to reduce the "heat island effect", where urban temperatures are anywhere from 2 to 10 degrees higher than suburban areas, and can affect communities energy usage and costs, pollution levels and weather patterns. It is recommended by the EPA a "cool roof" be used to mitigate this. A cool roof application for a low-slope roof is a bright white surface to reflect sunlight and reduce heat absorption.
- Screen Roof Top Units – The attached Site Line Diagrams show that the Roof Top Units are fully screened from view on all four sides, including I-90, by raised parapets provided on all four sides of the store.

As always, please feel free to contact me if you have any questions or comments.

Also, I believe from our last conversation that we were continued to the upcoming meeting on the 24th of July. Can you confirm that we are on the agenda for the 24th?

Thanks so much!

Mary Foley, Assoc. AIA

mfoley@rhaaia.com

T: 214.290.7038

F: 214.748.0656