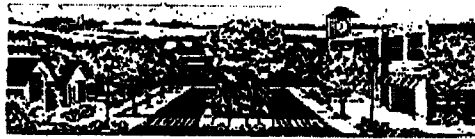


ATTACHMENT 2

(27)

*The Design Response, Inc.*

Memo To: Kay Pearlstein
George Small, PE

Memo From: Jack L. Smyre, PE, AICP *JLS*

Date: March 25, 2002

Subject: Alternate language for Stipulation #24 of Resolution A for Cross Creek

Pursuant to our discussions of the last few days and the discussions last week between Fred Royal of the Town's Engineering Department and Amos Clark of The John R. McAdams Company, Inc., I believe the following language should be mutually acceptable to both the applicant and the Town of Chapel Hill for Stipulation #24 of Resolution A for Cross Creek:

24. That prior to the issuance of a Zoning Compliance Permit the applicant submit a Stormwater Management Plan for review and approval by the Town Manager. The plan shall demonstrate that the downstream drainage conditions are not measurably worsened in a manner directly attributable to the proposed subdivision, according to methodology to be approved by the Town Manager. The plan shall be based on the 1-year, 2-year, and 5-year frequency, 24-hour duration storms, where the post-development stormwater run-off rate shall not exceed the pre-development rate. Engineered stormwater facilities shall also remove 85% total suspended solids, on an ^{average} annual basis, and treat the first inch of precipitation utilizing NC Division of Water Quality design standards. All stormwater management improvements outside public right of way must be located within storm drainageway easements and shall not be permitted within approved bufferyard areas.

The proposed amendment simply better defines that "worsened" is limited to causes attributable to the proposed Cross Creek subdivision and not the remaining 90+% drainage basin area that contributes to the downstream conditions, that the design storms for which detention has been demonstrated to be effective for this development are the 1-year and the 2-year storms, with the 5-year storm being a crossover point after which actual harm is done by detaining for larger event storms, and that the total suspended solids removal rate of 85 % is actually calculated on an annual basis according to state standards.