

MINUTES OF THE ARANSAS COUNTY
STORMWATER MANAGEMENT ADVISORY COMMITTEE
WORKSHOP
OCTOBER 18, 2010

On the 18th day of October, 2010, the Stormwater Advisory Committee held a workshop at 9:00 AM at the Aransas County Service Center, 1931 FM 2165, Rockport, Texas with the following members present: De McLallen, Charles Smith, Pat McKelvey, Frank Reilly and Russell Cole. Representing the County's SWM Consultant team were John Michael (NEI), Craig Thompson (NEI), Linda Pechacek and Paul Lippke (LCR). Representing the County Engineering staff were David Vyoral and David Reid. Also present were C.J. Wax (City of Rockport), Tom Blazek (City of Rockport), Tom Calhan and Nan Jackson.

1. Meeting was opened De McLallen. Mr. McLallen reminded the committee that this was a workshop and no action will be taken.
2. Craig Thompson made a presentation on hydrologic methodologies. The City of Rockport drainage plan used the rational method, $Q=CIA$. This method produces a peak flow with the only variable being C, runoff coefficient. NEI is using a Soil Conservation System method, which uses curve numbers and lag time to determine a peak flow, time to peak and volume of runoff. The Flow 2D software, used in the 12 priority watersheds, will produce a flood map that can be adopted for Floodplain Management issues. An important characteristic of Aransas County is the natural depressions that scattered throughout. The depressions serve as storage facilities, habitat resources and function as water quality facilities. NEI recommends these depressions be preserved or mitigated when considering development projects. Runoff quantities are based on the depressions being partially full. Watersheds, other than the 12 priority watersheds, will use HEC HMS. If the County wants Flow 2D models for all watersheds, the cost will be an additional \$8000 to \$9000.
3. Mr. Thompson went through a case study using Estes Flats watershed and a theoretical 40-ac development with varying densities. NEI recommends that new drainage easements be acquired based on density associated with 1-ac lots and build channels to convey existing flow. Mr. Thompson was asked if that was reasonable for all watersheds or should each watershed be considered independently. NEI will coordinate with County staff and recommend design criteria on a watershed basis. It was suggested that impact fees could be used to reimburse regional drainage facilities.
4. The committee discussed criteria to be used when prioritizing drainage projects. Commissioner Smith suggested, in order of importance, the following criteria:
 - a) Activity of Development
 - b) Land Availability
 - c) Correction of Existing Flooding Conditions
 - d) Cost

County staff will assemble a list of criteria to circulate by email to committee members for comment.

5. The committee decided to delay our next meeting by one week to allow NEI to have time to complete design density assumption and priority criteria recommendations. Mr. Reilly asked when the rest of the watersheds will be finished. Mr. Thompson stated he will have hydrology for the rest of the County completed two weeks after next SWMAC meeting.

Meeting was adjourned at 11:10 PM



David J. Reid, P.E.
Stormwater Management Engineer