

POSITION PAPER for

Collier County Coastal Storm Risk Management (CCSRM) Feasibility Study

Prepared By: Collier County Coastal Advisory Committee (CAC)

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TOPIC: CAC input on current progress by the US Army Corps of Engineers (USACE) on the CCSRMM Project

Collier County has experienced After two significant hurricanes impacting the county in the last 7-seven years causing significant damage from coastal flooding. It is therefore critically important for the county and the county residents which liveliving within the areas susceptible to coastal flooding to implement a plan which that prevents, or at a minimum, mitigates storm driven coastal flooding. Through the efforts of the county's coastal zone management staff, the county has been able to secure the USACE interest in a project and that would develop identify tentative options to mitigate storm driven coastal flooding. The first part of the project The initial task is the preparation of a Tentatively Selected Plan (TSP) based on cost-benefit driven flood protection/mitigation measures identified by the USACE. The USACE brings a wealth of experience and, expertise and important federal funds to help pay for the design and construction of infrastructure to potentially be implemented by the County through a cost sharing agreement.

Unfortunately, based upon the CAC's participation in various planning sessions, public meetings and County and USACE led in person and virtual public meetings, it is CAC's opinion that the project is not trending towards the goal of preventing storm driven coastal flooding. This has occurred through a series of delays, mis-information, and special interest environmental groups outside the county co-opting the message. Failure of this project to meet the goal of protecting Collier's coastline and residents exposes significant portions of the county to future destruction of homes, businesses, critical infrastructure and its overall impact on tourism, ultimately impacting the county economy. CAC's basis for this opinion includes the facts that:

- Structural measures for flood protection have been eliminated from the USACE project driven by:
 - Construction cost inflation which has skewed the economics for "cost effective" available coastal flood prevention measures.
 - USACE has indicated its that the county's preference is for "nature based" solutions which which cannot from a practical approach prevent coastal flooding via unprotected coastal inlets and exposed shoreline. Vocal environmental lobbying is driving nature based solutions as a realistic alternative to structural measures to prevent coastal flooding. This would not be achievable with the current USACE plan.
- Marco Island and other portions of the county have been excluded from the USACE project.
- The USACE TSP project schedule has been compression-compressed which is primarily driven by funding limitations. This is pushing accelerated completion of the TSP without adequate understanding of the economics being used to screen available prevention or mitigation measures.

Commented [JH1]: I disagree with this sentence. It is trending the right way, just not the way Marco residents want. But because of its 5' height and SLR it is next to impossible to protect Marco Island from storm surge. The gates that were proposed would flood other parts of the island. The only options for Marco are nearshore offshore islands to the south and west that could receive Mangroves in the future and maybe encouraging the sandbar that is forming to the south. The other alternative is increasing dunes and perhaps hardening them to better protect the shoreline. Not sure what Marco is asking for.

Commented [JH2]: While they cannot remove this risk, they can mitigate it. Storm Surge is the biggest concern and if we can break up the waves off the coast it will go a long way to addressing the problem. So far they have not focused on strategies to break up waves like nearshore offshore reefs that are being used in other locations.

- As currently proposed, the project appears to be headed toward a beach renourishment and mangrove planting project for limited areas of the county. This will not prevent coastal flooding.
- The current USACE schedule is to release the TSP to the public in September 2024 and allow a 30 day comment period as required by Federal law. However, USACE and Collier County have failed to note that this is the minimum federal requirement period for public comment. Furthermore, the comment period will be at a time when the County's population is at the lowest during the year and occurs during the height of hurricane season. A comment period of at least 90 days is necessary for the public, engineering professionals and other parties to adequately review and comment on the TSP.

If the county waits to act until the USACE releases their Tentatively Selected Plan (TSP), it will be too late. CAC is recommending that the county commissioners take a more proactive role in shepherding this project with clear communication that the county is in support of the project and is willing to do more to protect areas and communities which are at risk of coastal flooding but which are not part of the current USACE plan.

Our Recommendations

- The County elected officials communicate their dedication to the USACE project and the need to get this right from the beginning and not rush to issue a TSP which does not meet the stated goal of preventing storm driven coastal flooding.
- The County's engineering experts become more directly involved in understanding the economic models being used, the resultant flood elevations, the defined areal flood zones for the model, and post flood impacts for each proposed flood mitigation measure.
- The County work with USACE on screening additional mitigation measures for improvements in areas currently not in the USACE plan or for improvements to USACE proposed mitigation measures (e.g., dune height increase, inlet protection, etc).

In conclusion the county has a once in a lifetime opportunity to reduce the risk of coastal flooding with technical support from the USACE and substantial Federal funding. We cannot squander this opportunity.

Commented [JH3]: You have not mentioned the Environmental Justice element of their plan which has real potential to help many lower income residents, especially those experiencing flooding from storm surge up Naples Bay. I realize that none of the EJ areas are in Marco Island so maybe you were not aware of this emphasis.