

Stormwater Review:

Design Checklist:

Note: DHW refers to Design High Water elevation

➤ Storm designed to accommodate a 5-inch, 24-hour rainfall event?	Yes___
➤ If Retention, does design accommodate back-to-back 5-inch, 24-hour rainfall event	Yes___ N/A___
➤ Method used TR-55?	Yes___ No___, If not, Why?_____
➤ Have all contributing stormwater runoff areas been accommodated?	Yes___
➤ Is De/Retention DHW 2 feet below lowest residential opening?	Yes___ N/A___
➤ Is De/Retention DHW 1 foot below lowest non-residential opening?	Yes___ N/A___
➤ Is Detention over a paved surface?	Yes___ No___
➤ If Detention area is paved, is area residential?	Yes___ No___
➤ If Detention is over paved residential, are the DHW 18-inches or less?	Yes___ N/A___
➤ If Detention is over paved non-residential, are DHW 12-inches or less?	Yes___ N/A___
➤ Is Soil Type used Type “C” or “D”? [County Soil Survey is not adequate for using Type “A” or “B” soils alone.]	Yes___ No___ N/A___, (100% impervious)
➤ If Soil Type “C” or “D” has not been used, has geological study been provided to support actual soil type?	Yes___ N/A___
➤ Is there a minimum 2% grade on the base of the detention basin?	Yes___ No___
➤ If Detention base does not have a 2% grade is there a concrete flow channel with grade between 1% and 2%?	Yes___ N/A___
➤ Does the storage depth penetrate the existing water table?	No___
➤ Is freeboard established at 1-foot above the DHW on the de/retention basin?	Yes___
➤ Is allowable release rate established at 0.2 cfs or less?	Yes___ No___
➤ If release rates not 0.2 cfs or less, is it due to minimum 2-inch restricted outlet?	Yes___ N/A___
➤ Can Emergency Overflow accommodate a minimum 10-year rainfall event?	Yes___
➤ Does stormwater outlet consider minimizing sediment contribution to the City storm sewer system?	Yes___
➤ If De/Retention in floodplain area is it separate from pre-development floodplain volume?	Yes___ N/A___
➤ Are stormwater management related easements required? And if so, related information/documentation provided?	Yes___ N/A___
➤ Provide written explanation if related information/documentation is not provided.	

Drafting Criteria:

➤ Have adequate survey points been provided to a minimum 50 feet beyond property limits?	Yes___
➤ Have further survey points been provided outside property limits that contribute to stormwater de/retention design?	Yes___
➤ Is redirection of outside contributing areas shown on drawings?	Yes___ N/A___
➤ Has profile(s) of de/retention basin been provided?	Yes___
➤ Are side slopes of De/Retention basin 1:6 or flatter?	Yes___ No___
➤ If basin side slopes are steeper than 1:6, are they between 1:6 and 1:3?	Yes___ N/A___
➤ If basin side slopes steeper than 1:6, is fencing and 10 foot buffer provided?	Yes___
➤ Is stormwater runoff within the site development area contained?	Yes___
➤ Is the tributary area(s) for contributing stormwater runoff on site and off site, and the development boundary the same?	Yes___ No___
➤ Is the development boundary shown on the drawings?	Yes___
➤ Is the tributary area for contributing stormwater runoff show on the drawings?	Yes___
➤ Are measures indicated on drawings showing how runoff is controlled from buildings and other structures?	Yes___
➤ Have existing and proposed grading conditions been provided on the plans?	Yes___
➤ Are proposed elevations, drainage arrows, and one foot contours (if applicable) provided for entire development area?	Yes___
➤ If a plat development, are finished floor elevations provide on drawings?	Yes___ N/A___
➤ Is emergency overflow location shown on the drawings?	Yes___
➤ Has a profile detail of the emergency overflow been provided?	Yes___ (not necessary if emergency overflow is over drive entrance).
➤ Does emergency overflow adversely affect adjacent properties?	No___
➤ Do open-ended inlets and outlets have end-sections and adequate riprap?	Yes___
➤ Are end sections 6-inches or larger grated?	Yes___
➤ Are stormwater management related easements shown on the drawings?	Yes___ N/A___
➤ Have lowest opening elevations been provided on the drawings, which includes ground elevation surrounding egress openings to basements?	Yes___

Application/Certification Criteria:

➤ Is City Stormwater Permit Application completed?	Yes ___
➤ Has stormwater fee been paid? (must be paid prior to permit approval and building permit)	Yes___ No___
➤ Has design method and soil type been provided in the “Notes” portion of the application?	Yes___ N/A___
➤ Do you understand the requirements relating to City stormwater certification process?	Yes___

Additional Subdivision/Site Condominiums Requirements:
(Complete only if applicable)

NOTE: Any Subdivision/Site Condominium development phasing shall consider future phase impacts.

➤ Have public/private easements been provided on drawings where necessary?	Yes ___ N/A___
➤ Have 10’ utility easements been provided outside and along proposed rights of way?	Yes ___ No ___
➤ Has written information been placed on the drawings describing the purpose of the easements?	Yes ___ N/A___
➤ Has written information about easements that affect the project and are not on drawings been provided?	Yes ___ N/A___
➤ Is all stormwater runoff on the proposed development being directed to stormwater re/detention basins or areas?	Yes ___ No ___
➤ Is any stormwater runoff being stored outside the road right of way?	Yes ___ No ___
➤ Have arrangements been made and written explanation provided regarding maintenance of any proposed private storm management system?	Yes ___ N/A___
➤ Has phasing of development been provided?	Yes ___ N/A___
➤ If phased, has overall storm management concept been provided for entire development?	Yes ___ No ___ N/A___
➤ If phased, will storm management for each phase and entire development be compatible?	Yes ___ N/A___
➤ Has a minimum of 20’ wide travel lane been provided on the drawings for emergency purposes?	Yes___
➤ Have “no parking” areas been provided where necessary to maintain a 20’ wide travel lane?	Yes___ N/A___