This checklist is to assist Pima County Regional Flood Control District staff in completing a review of project drainage information and to help assure consistent reviews. The checklist is provided as a courtesy to the public. It is not a substitute for professional judgment or complete text of codes, policies and design standards. Submitting the items summarized by the checklist does not insure project approval. Additional site-specific information may be required.

Project Name ____________________________________________                Project Number ________________________

Some construction detail may be deferred to the Site Construction Permit.

Cover Sheet

Legend

_____ 100-year Floodplain Limits for Regulatory Flows
_____ Erosion Hazard Setbacks for Regulatory Flows
_____ 404 Limits
_____ FEMA limits

Site Plan

_____ Easements labeled as private
_____ Public easements require management approval
_____ Drainage easements shown/ labeled
_____ Matches Utility/Hydrology
_____ Existing Conditions/Infrastructure

Utility/Hydrology Sheet

_____ Topography consistent with other available sources
_____ Spot elevations, FFE, FG
_____ Conceptual grade contours
_____ Floodplain Limits for regulatory flows
_____ 100-year WSE for regulatory flows, maximum distance of 200 feet apart (if FEMA, show FIRM data)
_____ EHS for regulatory flows
_____ Q100 and drainage areas entering and exiting the site
_____ Q100 at all drainage structures
_____ Erosion protection location and dimensions
_____ Drainage scheme with flow arrows / % slope
_____ Curb Openings/Scuppers Q100's, locations
_____ Channels dimensions, construction, grades
_____ Culverts material, size, grades, design Q, headwater
_____ Pipe Material, Size, Inverts, Length
_____ Storm Drains material, size, grades, manholes, rim elevations, inlets, design Q, outlets
_____ Basins
_____ Inlet Structures with elevations
_____ Outlet Structures with elevations: invert, weir
_____ Outlet Protection
_____ Side Slopes
_____ Setbacks from structures/property lines
_____ Bottom 0.5% slope min. if detention only, flat if retention
_____ Security Barrier (min. 42") for side slopes steeper than 4:1 and 100-year depth greater than 2 feet
_____ Maintenance access
_____ Labeled as Private

Multi-use basins: sign(s), service equipment elevated

Detail Sheets

_____ Channel sections: Q100, depth, freeboard, slope, N-value, velocity
_____ Outlet protection matching supporting calculations
_____ PAAL/street cross-sections: dimensions, curb height, Q100, slope
_____ Detention Basin cross-sections: dimensions, top/bottom elevation, 100-Year WSE, outlet structures
_____ Basin inlet/outlet structures
_____ Bank protection, erosion protection and toe down details

Updated August 13, 2021