TEMPLATE - Drainage & Detention Summary Tables

A.

Pre-Development (Existing)	Areas (acres)	Areas (%)
Total Project Tract Site		
Impervious		
Pervious		
Total	**0**	**0%**

B.

Post-Development (Assumed Ultimate)	Areas (acres)	Areas (%)
Building		
Parking Area		
Water acreage to be considered Impervious. (i.e., detention ponds (dry or wet), lakes, channels, and roadside ditches (use the area within the top of bank)		
Other Impervious (assumed)		
Pervious		
Total		**0%**

C.

DRAINAGE AREAS	Pre-Development (Existing)	Post-Development (Proposed)
2-yr (acres)		
A. 100-yr (acres)		
B. 100-yr OFFSITE* (acres) *All OFFSITE sheet flow from adjacent properties and/or areas beyond the tract must be identified, properly accounted for, and mitigated as part of the project.		
Total 100-yr (acres) [A + B]		

D.	Storm Frequencies(includes Offsite Areas)	2-yr (50%)	10-yr (10%)	100-yr (1%)
Total Peak Flow Rate (cfs)	**Pre-Development (Existing)** Max. Allowable Outflow			
	Post-Development (Proposed) BEFORE Detention/Restrictor			
	Post-Development (Proposed) WITH Detention/Restrictor (from detention basin)			
	Flow Results	**Post < Pre OK**	**Post < Pre OK**	**Post < Pre OK**
Elevation (1988 NGVD, 2001 Adj.)	Lowest Natural or Finished Ground Elevation Estimate			
	Lowest Finish Floor Elevation (FFE) of Existing/ Proposed building(s)			
	Maximum Allowable Water Surface Elevation Based on:			
	Design Water Surface Elevation			
	Water Surface Elevation Calculated			
Detention Basin Storage	*100-yr Detention Basin Storage **Required** (ac-ft)			
	100-yr Detention Basin Storage **Provided** (ac-ft)			
	100-yr Detention Basin Storage Rate **Provided** (acre-feet/acre)			
	**Provide calculation in Drainage Memo and Plans*			
Outflow Structure	If applicable - Restrictor Size (ft or ft2)			
	Outflow Pipe Size (ft or ft2)			
	Outflow Velocity (ft/second)			
	Gravity Outfall Rate Provided (cfs)			
	Explain tail water/HGL used from roadside ditch for 2 & 100-yr to calculate your discharge rate			
	The existing channel/ roadside ditch's full bank capacity (open channel hydraulics)			
	Outflow Velocity into existing channel/roadside ditches (ft/ second)			
	If applicable - % Pumped discharge volume (ac-ft)			
	If applicable - Weir Description (type, size, elevation, etc.)			
	Drain Time 100-yr only (hours)			
	Emergency Overflow (type, size, elevation, etc.)			

E. **Detention Stage/Storage – Summary Table**
***If using a pump - add Stage/ Discharge**

Elevation	Area (SF)	Storage (SF)	Cumulative	Storage (Ac-ft)	Critical Elevations/ Note	Gravity or Pumped
42						Pumped
42.17					Typical Pool (for wet ponds)	Pumped
43						Pumped
44						Pumped
44.45						Gravity
45					2-yr WSE	Gravity
45.51						Gravity
46					10-yr WSE	Gravity
47					100-yr WSE	Gravity
48					Pond Top (1-ft freeboard from 100-yr WSE)	
48.6					Emergency spillway/ overflow weir	Gravity

If proposing **multiple detention ponds**, please include the summary table below.

Detention Storage Provided For Project Area			
Project Name	**BKDD Permit No.**	**Pond Name**	**Proposed Detention (acre-ft)**
Project "A"	202X-YYY	PO-1	26.305
		PO-2	81.476
		PO-3	32.901
		TOTAL	**140.682**

If proposing **multiple projects**, please include the summary table below:

Applied Detention Summary					
Project Name	**BKDD Permit No.**	**Acreage (acres)**	**Impervious Cover (acres)**	**Applied Detention (acre-ft)**	**Remaining Detention (acre-ft)**
Project "A"	202X-YYY	100.00	80.00	50.00	90.68
Project "B"	202X-ZZZ	89.00	70.00	50.00	40.68
Project "C"	202X-RRR	50.00	45.00	10.00	30.68