Salt Lake City

Department of Public Utilities

Technical Drainage Study Checklist



The following items must be included in each technical drainage study. All residential projects greater than 2 acres and all other projects greater than 1 acre require a technical drainage study. Revision to sites that are greater than 1 acre and changing more than 15,000 square feet also require an amended drainage study. Provide a copy of this checklist with the Technical Drainage Study. SLC Code Chapters 17.81 and 17.84. SLC Code Chapter 21A.34 Utah Administrative Code R317-8

	Project Information Title Page Project Name, Address, Date Preparer's Name, PE Stamp and Signature General Location and Description Vicinity Map General Oroject Description and Proposed Use Site Conditions Topography Project Site Area (Acres) Limits of Disturbance Existing Waterways		Analysis Hydrologic Design Storm and Rainfall Discussion 3 Hour / 10 and100 year / Farmer Fletcher Distribution Discussion of runoff calculations Routing plan Discussion and Schematic Discussion and Description of Hydrologic Model Detention location and sizing Storage Calculation based on 0.2 cfs discharge Hydraulic Street Capacity Depth and Flow calculations Pipe Capacity
	Soils Information Survey Control		Overflow path and discharge locations Overflow path and discharge locations
	Drainage Basin Drainage Basin(s) Existing Offsite Drainage Existing On Site Drainage Master Plan		Conclusions Summary Compliance statement Appendix
	Floodplain information Previous Drainage Studies		Checklist Grading and Drainage Plan (24x36 and 11x17) Offsite grading or discharge agreements*
	Proposed Drainage Plan General Description Offsite Drainage On Site Drainage Summary of Hydrologic Analysis Summary of Facility Design Criteria and Control Elements		Flood Plain Development Permit* Salt Lake County Flood Control Permit* Percolation and Geotechnical Report* Calculations and Model Input/output (HEC-HMS, SWMM5, Rational) Pipe and inlet capacity Rainfall data Stormwater Basins
	Stormwater Quality Post Construction Water Quality Plan Structural Control Measures Non Structural Control Measures Green Infrastructure (Bioswale, infiltration basin wetlands, vegative buffer, etc.)		Detention sizing Stormwater Dashis Stormwater Quality Maps FEMA FIRM Soils Map Vicinity Map
Project:		* If applicable Address:	
Submitted by:		Date:	
Dhana		Email	