



Public Works Department

55 North Main Street
Ivins, Utah 84738
(435) 634-0689

Preliminary/Final Drainage Report Checklist

This sheet shall be provided with each drainage report. All items should be checked off.

Name of Development: _____

Size of Development: _____ acres

Name of Professional Engineer: _____

Name of Engineering Company: _____

Phone: _____ Email: _____

Check off each submitted item:

Drainage Report

Preliminary Final

- Title page showing project name, date, preparers name, seal and signature.
- Description of property, area, existing site conditions including all existing drainage facilities such as ditches, canals, washes, structures, etc.
- Description of off-site drainage upstream and downstream.
- Description of on-site drainage.
- Description of master planned drainage and how development conforms to the Ivins City Drainage Master Plan.
- Description of FEMA floodplain, if applicable.
- Description of other drainage studies that affect the site.
- Description of proposed drainage facilities.
- Description of design runoff computations and methods.
- Description of drainage facility design computations.
- Results of percolation tests for any retention/detention ponds.

- Description of all easements and rights-of-way required.
- Description of FEMA floodway and floodplain calculations, if applicable.
- Conclusions stating compliance with drainage requirements and opinion of effectiveness of proposed drainage facilities and accuracy of calculations.
- Appendices showing all applicable reference information, including all model input and output files and results with appropriate explanations.

Drainage Plan

- Submitted on separate 11"x 17" sheets
- Submitted on separate 24"x 36" sheets

A separate drainage plan for the following scenarios:

- Existing off-site and on-site conditions.
- Existing off-site and developed on-site conditions.
- Developed off-site and on-site conditions.

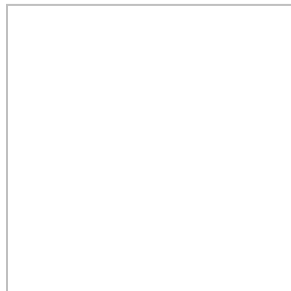
Shows the following information:

- Existing and proposed property lines.
- Existing and proposed 2' contours.
- Existing and proposed streets, easements, and rights-of-way.
- Existing drainage facilities.
- FEMA floodplain, floodway and meander boundaries.
- Drainage basin boundaries and subbasin boundaries.
- Existing flow patterns and paths.
- Proposed flow patterns and paths.
- Location of proposed drainage facilities.
- Size of proposed drainage facilities.
- Details of proposed drainage facilities.

- Location of drainage easements required.
- Scale, north arrow, legend, title block showing project name, date, preparers name, seal and signature.

Hydrology and Hydraulic Calculations

- Rainfall data (i.e. sources for rainfall depth and durations used).
- Landuse data (i.e. sources for curve numbers on other landuse coefficients).
- Time of concentration calculations.
- Hydrology calculations (or if a computer model is used, provide all input and output).
- Ditch/channel capacity calculations.
- Culvert capacity calculations.
- Street flow capacity calculations.
- Inlet capacity calculations.
- Detention and outlet design calculations (area/storage/discharge rating curves).
- Pipe capacity calculations.



Engineer stamp & signature here.