

SECTION 20 - FLOODPLAIN

A. Planning Standards

If any alterations to the floodplain boundaries, flood elevations, or flood depths of County zoned floodplains are proposed, a Floodplain Report and Plan shall be required. (am. 10-25-05)

B. Floodplain Assessment

1. Preparation

The Floodplain Assessment shall be prepared and signed by a professional engineer, qualified in the fields of hydrology and drainage engineering. (reloc. 7-12-05; reloc. 10-25-05)

2. Content

- a. A discussion of the hydrologic and hydraulic analysis. (reloc. 07-12-05; reloc. 10-25-05)
- b. A discussion of access to and maintenance of the drainage channel. (reloc. 07-12-05; reloc. 10-25-05)
- c. Preliminary design calculations for any proposed drainage structures. (reloc. 07-12-05; reloc. 10-25-05)
- d. A plan and profile of the drainage channel showing.
 - (1) Existing and proposed 100-year floodplain boundaries and water surface profiles. (reloc. 07-12-05; reloc. 10-25-05)
 - (2) Existing topography and drainage facilities. (reloc. 07-12-05; reloc. 10-25-05)
 - (3) Proposed typical channel section showing side slopes, velocities and flow depths. (reloc. 07-12-05; reloc. 10-25-05)

C. Floodplain Report

1. Preparation

The Floodplain Report shall be prepared and signed by a professional engineer, qualified in the fields of hydrology and drainage engineering. (reloc. 7-12-05; am. 10-25-05)

2. Content

- a. For those streams where base flood elevations are not available: (reloc. 7-12-05)
 - (1) A general description of the proposed alterations (i.e., dam, diversion channel, detention pond, fill, channelization, bridge, culvert, etc.). (reloc. 7-12-05)
 - (2) A hydrologic analysis accounting for the effects of changes in hydrologic conditions for the 100-Year Flood. (reloc. 7-12-05)
 - (3) A hydraulic analysis accounting for the effects of changes in the hydrologic and hydraulic conditions for the 100-year flood. (reloc. 7-12-05)
 - (4) The computer model type, quality assurance information, and the input and output data of the hydraulic analysis for the existing and proposed conditions. (reloc. 7-12-05; am. 10-25-05)

- b. For those streams where base flood elevations are available: (reloc. 7-12-05)
 - (1) A general description of the proposed alterations (i.e., dam, diversion channel, detention pond, fill, channelization, bridge, culvert, etc.). (reloc. 7-12-05)
 - (2) A hydrologic analysis accounting for the effects of changes in hydrologic conditions for the 10-, 50-, 100-, and 500-year floods. (reloc. 7-12-05)
 - c. A hydraulic analysis accounting for the effects of changes in the hydrologic and hydraulic conditions both on-site and off-site for the 10-, 50-, 100-, and 500-year floods. The analysis shall be made using the same hydraulic computer model as used to develop the existing hydraulic analysis. (reloc. 7-12-05)
 - d. The input and output data from the computer model for the hydraulic analysis for the existing and proposed conditions. (reloc. 7-12-05)
 - e. A list of references and other supportive data used. (orig. 10-25-05)
 - f. A Floodplain Map. (orig. 10-25-05)
3. Approvals
- a. The Floodplain Report shall be approved by the Planning and Zoning Division prior to the development's approval. (reloc. 7-12-05; am. 10-25-05)
 - b. The Urban Drainage and Flood Control District shall approve the Floodplain Report for projects that are eligible for Urban Drainage and Flood Control District maintenance assistance. (reloc. 7-12-05; am. 10-25-05)
 - c. The Floodplain Report shall be submitted to the Federal Emergency Management Agency Regional Office for review. A conditional letter of map revisions must be obtained prior to the development's approval. (reloc. 7-12-05; am. 10-25-05)

D. Floodplain Plans

- 1. Preparation
 - a. Floodplain plans are to be submitted in conjunction with the floodplain report.
 - b. The Floodplain Plans (excluding plans for engineered structures) shall be prepared and signed by a professional engineer, qualified in the fields of hydrology and drainage engineering. (reloc. 7-12-05; am. 10-25-05)
 - c. Plans for engineered structures shall be prepared and signed by a professional engineer, qualified in the field of civil engineering. (reloc. 7-12-05)
- 2. Content
 - a. For those streams where base flood elevations are not available: (reloc. 7-12-05)
 - (1) Construction plans showing existing and proposed structures and existing and proposed topography. (reloc. 7-12-05)
 - (2) Plans showing the revised delineation of the floodplain boundaries for the 100-year flood. (reloc. 7-12-05)
 - (3) Profiles showing proposed streambed and the 100-year water surface profile. (reloc. 7-12-05)
 - b. For those streams where base flood elevations are available: (reloc. 7-12-05)

- (1) Construction plans showing existing and proposed structures and existing and proposed topography. (reloc. 7-12-05)
- (2) Plans showing the revised delineation of the floodplain boundaries for the 100- and 500-year floods. (reloc. 7-12-05)
- (3) Profiles showing proposed streambed, 10-, 50-, 100- and 500-year water surface profiles. (reloc. 7-12-05)

3. Approval

- a. The Floodplain Plan(s) shall be approved by the Planning and Zoning Division prior to the development's approval. (reloc. 7-12-05; am. 10-25-05)
- b. The Urban Drainage and Flood Control District shall approve the Floodplain Plan(s) for projects that are eligible for Urban Drainage and Flood Control District maintenance assistance. (reloc. 7-12-05; am. 10-25-05)
- c. The Floodplain Plan(s) shall be submitted to the Federal Emergency Management Agency Regional Office for review. A conditional letter of map revisions must be obtained prior to the development's approval. (reloc. 7-12-05; am. 10-25-05)