



Ohio Administrative Code Rule 1501:21-5-02 Preliminary design report.

Effective: June 27, 2024

(A) For class I and II levees and for dams, the preliminary design report shall include:

(1) A general description of the dam or levee and all appurtenances thereto, and the proposed classification of the structure as set forth in rule 1501:21-13-01 or 1501:21-13-09 of the Administrative Code. The description is to include a statement of the purpose for which the dam or levee is to be used, and a statement setting forth the impact of such dam or levee as it relates to endangering human life, health, or property upstream, downstream or adjacent to the dam or levee.

(2) For dams, maps showing:

(a) The ownership of all property, in whole or in part, that would be inundated by the reservoir up to and including the elevation of the top of the dam and the ownership of the property upon which the dam is located;

(b) The location of the proposed structure; the county, township, and section lines;

(c) The outline of the reservoir at its primary spillway elevation and its maximum pool;

(d) Topographic contours of the lake area up through the top of dam elevation to verify storage volumes;

(e) The locations of state, county, and township roads; the locations of utilities, i.e., pipe, transmission, and telephone lines;

(f) The location and elevation of any other structure or facility affected by the proposed dam or levee.

State, county, and U.S.G.S. maps, and aerial photographs may be accepted for these purposes



(3) For levees, maps showing:

- (a) The ownership of all property, in whole or in part, that would be protected and the ownership of the property upon which the levee is located;
- (b) The location of the proposed structure; the county, township, and section lines;
- (c) The locations of state, county, and township roads; the locations of utilities, i.e., pipe, transmission, and telephone lines;
- (d) The location of any other structure or facility affected by the proposed levee; and,
- (e) Basement and first floor elevations of all structures potentially affected by the levee as deemed necessary by the chief.

State, county, and U.S.G.S. maps, and aerial photographs may be accepted for these purposes.

- (4) A written report of the surficial conditions, i.e., geology, topography, and cultural features, which includes a field reconnaissance by the applicant's engineer. Logs of borings in the foundation and in the borrow areas, and results of seismic and resistivity subsurface investigations, when they are readily available.
- (5) Typical cross-sections of the dam or levee accurately showing proposed elevations, slopes, pool levels, and top width.
- (6) Preliminary design assumptions, tentative conclusions, and references. The design assumptions are to pertain to such hydrologic and hydraulic parameters as drainage area, rainfall and runoff data, inflow hydrographs, area-capacity-elevation data, and flood routings, in addition to geologic and geotechnical engineering assumptions.
- (7) A description of how the streamflow will be diverted around or through the dam site, or otherwise kept from interfering with the work;



(8) Other pertinent information as may be needed by the chief.

(B) For proposed class III levees, the preliminary design report is to include a letter from the owner stating the purpose and proposed height of the levee, a map showing the location of the levee, a map showing the ownership of all property, in whole or in part, that would be protected, and certification that the levee will be consistent and in accordance with all applicable state and local floodplain regulations .

(C) Within forty-five days from the date of receipt of the complete preliminary design report, the chief will respond in writing with approval, conditional approval, or disapproval of said report. Upon approval, the chief will designate the approved classification of the proposed structure. If the proposed structure is placed in class IV pursuant to rule 1501:21-13-01 or in class III pursuant to rule 1501:21-13-09 of the Administrative Code, the chief will notify the applicant that the proposed structure is exempt from the legal provisions of a construction permit (rule 1501:21-19-01 of the Administrative Code).