2021 Virginia Construction Code

APPENDIX G FLOOD-RESISTANT CONSTRUCTION

SECTION G104 POWERS AND DUTIES

G104.1 Permit applications.

All applications for permits shall comply with the following:

- 1. The floodplain administrator shall review all *permit* applications to determine whether proposed development is located in *flood hazard areas* established in Section G103.2.
- 2. Where a proposed development site is in a *flood hazard area*, all development to which this appendix is applicable as specified in Section G103.1 shall be designed and constructed with methods, practices and materials that minimize *flood* damage and that are in accordance with this code and ASCE 24.

G104.2 Other permits.

It shall be the responsibility of the floodplain administrator to ensure that approval of a proposed development shall not be given until proof that necessary permits have been granted by federal or state agencies having jurisdiction over such development.

G104.3 Determination of design flood elevations.

If design flood elevations are not specified, the floodplain administrator is authorized to require the applicant to meet one of the following:

- 1. Obtain, review and reasonably utilize data available from a federal, state or other source.
- 2. Determine the *design flood elevation* in accordance with accepted hydrologic and hydraulic engineering techniques. Such analyses shall be performed and sealed by a *registered design professional*. Studies, analyses and computations shall be submitted in sufficient detail to allow review and approval by the floodplain administrator. The accuracy of data submitted for such determination shall be the responsibility of the applicant.

G104.4 Activities in riverine flood hazard areas.

In riverine flood hazard areas where design flood elevations are specified but floodways have not been designated, the floodplain administrator shall not permit any new construction, substantial improvement or other development, including fill, unless the applicant submits an engineering analysis prepared by a registered design professional, demonstrating that the cumulative effect of the proposed development, when combined with all other existing and anticipated flood hazard area encroachment, will not increase the design flood elevation more than 1 foot (305 mm) at any point within the community.

G104.5 Floodway encroachment.

Prior to issuing a *permit* for any floodway encroachment, including fill, new construction, *substantial improvements* and other development or land-disturbing activity, the floodplain administrator shall require submission of a certification, prepared by a *registered design professional*, along with supporting technical data, demonstrating that such development will not cause any increase of the *base flood* level.

G104.5.1 Floodway revisions.

A *floodway* encroachment that increases the level of the *base flood* is authorized if the applicant has applied for a conditional *Flood Insurance Rate Map* (FIRM) revision and has received the approval of the Federal Emergency Management Agency (FEMA).

G104.6 Watercourse alteration.

Prior to issuing a *permit* for any alteration or relocation of any watercourse, thefloodplain administrator shall require the applicant to provide notification of the proposal to the appropriate authorities of all adjacent government jurisdictions, as well as appropriate state agencies. A copy of the notification shall be maintained in the permit records and submitted to FFMA

G104.6.1 Engineering analysis.

The floodplain administrator shall require submission of an engineering analysis, prepared by aregistered design professional, demonstrating that the flood-carrying capacity of the altered or relocated portion of the watercourse will not be decreased. Such watercourses shall be maintained in a manner that preserves the channel's flood-carrying capacity.

G104.7 Alterations in coastal areas.

Prior to issuing a *permit* for any alteration of sand dunes and mangrove stands incoastal high-hazard areas and coastal A zones, the floodplain administrator shall require submission of an engineering analysis, prepared by aregistered design professional, demonstrating that the proposed alteration will not increase the potential for flood damage.

G104.8 Records.

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The floodplain administrator shall maintain a permanent record of all permits issued in flood hazard areas, including supporting certifications and documentation required by this appendix and copies of inspection reports, design certifications and documentation of elevations required in Section 1612 of this code and Section R322 of the International Residential Code.

G104.9 Inspections.

Development for which a *permit* under this appendix is required shall be subject to inspection. The flood plain administrator's designee shall make, or cause to be made, inspections of all development in flood hazard areas authorized by issuance of a *permit* under this appendix.

G104.10 Use of changed technical data.

The floodplain administrator and the applicant shall not use changed flood hazard area boundaries or base flood elevations for proposed buildings or developments unless the floodplain administrator or applicant has applied for a conditional Flood Insurance Rate Map (FIRM) revision and has received the approval of the Federal Emergency Management Agency (FEMA).

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