

**Proposed Amendments to
Chapter 1000 Guidelines for Municipal Shoreland Zoning Ordinances
To Adapt to Sea Level Rise**

Note: Underlines indicate optional language proposed to be added to the current guidelines; ~~strikeouts~~ indicate language proposed to be removed, for the purpose of adapting to sea level rise. The symbol “ * * *” indicates a passage of text in the guidelines which is proposed to remain unchanged, and has been omitted here for brevity.*

Shoreland Zoning Ordinance for the Municipality of

1. **Purposes.** The purposes of this Ordinance are to further the maintenance of safe and healthful conditions; to prevent and control water pollution; to protect fish spawning grounds, aquatic life, bird and other wildlife habitat; to protect buildings and lands from flooding and accelerated erosion; to adapt to sea level rise and climate change; to protect archaeological and historic resources; to protect commercial fishing and maritime industries; to protect freshwater and coastal wetlands; to control building sites, placement of structures and land uses; to conserve shore cover, and visual as well as actual points of access to inland and coastal waters; to conserve natural beauty and open space; and to anticipate and respond to the impacts of development in shoreland areas.
2. **Authority.** This Ordinance has been prepared in accordance with the provisions of Title 38 sections 435-449 of the Maine Revised Statutes Annotated (M.R.S.A.).
3. **Applicability.** This Ordinance applies to all land areas within 250 feet, horizontal distance, of the
 - normal high-water line of any great pond or river,
 - upland edge of a coastal wetland, ~~including all areas affected by~~ defined as the contour line at the elevation of the highest annual tidal action tide level, or
 - upland edge of a freshwater wetland,

and all land areas within 75 feet, horizontal distance, of the normal high-water line of a stream.

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NOTE: Coastal wetlands, by definition, include all areas ~~affected by tidal action~~ below the level of the highest annual tide, not just those areas where salt marshes and salt meadows exist. Cobble and sand beaches, mudflats, and rocky ledges, below the maximum spring tide are all considered to be coastal wetlands.

13. Establishment of Districts

- A. **Resource Protection District.** The Resource Protection District includes areas in which development would adversely affect water quality, productive habitat, biological ecosystems, or scenic and natural values. This district shall include the following areas when they occur within the limits of the shoreland zone, exclusive of the Stream Protection District, except that areas which are currently developed and areas which meet the criteria for the Limited Commercial, General Development I, or Commercial Fisheries/Maritime Activities Districts need not be included within the Resource Protection District. To be eligible for exemption from inclusion in the Resource Protection District, a “currently developed” shoreline area that otherwise meets one

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of the six criteria below, shall contain at least three buildings located within the shoreland zone, spaced 500 feet apart or less.

- (1) Areas within 250 feet, horizontal distance, of the upland edge of freshwater wetlands, salt marshes and salt meadows, and wetlands associated with great ponds and rivers, which are rated "moderate" or "high" value waterfowl and wading bird habitat, including nesting and feeding areas, by the Maine Department of Inland Fisheries and Wildlife (MDIF&W) that are depicted on ~~a~~ the latest Geographic Information System (GIS) data layer maintained by either MDIF&W or the Department ~~as of May 1, 2006~~. For the purposes of this paragraph "wetlands associated with great ponds and rivers" shall mean areas characterized by non-forested wetland vegetation and hydric soils that are contiguous with a great pond or river, and have a surface elevation at or below the water level of the great pond or river during the period of normal high water. "Wetlands associated with great ponds or rivers" are considered to be part of that great pond or river.

- (2) Floodplains along rivers and floodplains along artificially formed great ponds along rivers, defined by the 100 year floodplain as designated on the Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Maps or Flood Hazard Boundary Maps, or the flood of record, or in the absence of these, by soil types identified as recent floodplain soils. Adjacent to coastal floodplains affected by tidal action, this district shall also 100-year floodplains include a buffer containing the "Limit of Moderate Wave Action," (LiMWA) landward of the 100 year floodplain. as shown on FEMA's Flood Insurance Rate Maps or Flood Hazard Boundary Maps adjacent to tidal waters. Adjacent to coastal V zones in tidal areas, as designated on the Flood Insurance Rate Map, the LiMWA buffer shall extend 200 feet landward of the 100 year floodplain limit. Adjacent to a coastal A zones in tidal areas, as designated on the Flood Insurance Rate Map, the LiMWA buffer shall extend 100 feet landward of the 100 year floodplain limit.

Notwithstanding the above provision, applicants for permits may employ a consultant, at their own expense, to use the methodology found in FEMA Memorandum #50 (Buckley, 2008), to locate the LiMWA and edge of the resource protection district more precisely on their own property, in lieu of conforming with the standard 200 foot V-zone buffer or 100 foot A zone buffer, as described above.

- (3) Areas of two or more contiguous acres with sustained slopes of 20% or greater.

- (4) Areas of two (2) or more contiguous acres supporting wetland vegetation and hydric soils, which are not part of a freshwater or coastal wetland as defined, and which are not surficially connected to a water body during the period of normal high water.

NOTE: These areas usually consist of forested wetlands abutting water bodies and non-forested wetlands.

- (5) Land areas along rivers subject to severe bank erosion, undercutting, or river bed movement, and lands adjacent to tidal waters which are subject to severe erosion or mass movement, such as steep coastal bluffs.

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(6) Frontal and back dunes as defined in the Department of Environmental Protection Sand Dune Rules.

- B. Limited Residential District.** The Limited Residential District includes those areas suitable for residential and recreational development. It includes areas other than those in the Resource Protection District, or Stream Protection District, and areas which are used less intensively than those in the Limited Commercial District, the General Development Districts, or the Commercial Fisheries/Maritime Activities District.
- C. Limited Commercial District.** The Limited Commercial District includes areas of mixed, light commercial and residential uses, exclusive of the Stream Protection District, which should not be developed as intensively as the General Development Districts. This district includes areas of two or more contiguous acres in size devoted to a mix of residential and low intensity business and commercial uses. Industrial uses are prohibited.
- D. General Development I District.** The General Development I District includes the following types of existing, intensively developed areas:
- (1) Areas of two or more contiguous acres devoted to commercial, industrial or intensive recreational activities, or a mix of such activities, including but not limited to the following:
 - (a) Areas devoted to manufacturing, fabricating or other industrial activities;
 - (b) Areas devoted to wholesaling, warehousing, retail trade and service activities, or other commercial activities; and
 - (c) Areas devoted to intensive recreational development and activities, such as, but not limited to amusement parks, race tracks and fairgrounds.
 - (2) Areas otherwise discernible as having patterns of intensive commercial, industrial or recreational uses.
- E. General Development II District.** The General Development II District includes the same types of areas as those listed for the General Development I District. The General Development II District, however, shall be applied to newly established General Development Districts where the pattern of development at the time of adoption is undeveloped or not as intensively developed as that of the General Development I District.

Portions of the General Development District I or II may also include residential development. However, no area shall be designated as a General Development I or II District based solely on residential use.

In areas adjacent to great ponds classified GPA and adjacent to rivers flowing to great ponds classified GPA, the designation of an area as a General Development District shall be based upon uses existing at the time of adoption of this Ordinance. There shall be no newly established General Development Districts or expansions in area of existing General Development Districts adjacent to great ponds classified GPA, and adjacent to rivers that flow to great ponds classified GPA.

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NOTE: See definition of "great pond classified GPA" in Section 17. In most municipalities all of the great ponds are classified GPA. In municipalities where all of the great ponds are classified GPA, the term "great ponds classified GPA" can be changed to "great ponds". It may also be helpful to list the names of the great ponds found in the municipality within the definition of "great pond" in Section 17.

F. Commercial Fisheries/Maritime Activities District. The Commercial Fisheries/Maritime Activities District includes areas where the existing predominant pattern of development is consistent with the allowed uses for this district as indicated in the Table of Land Uses, Section 14, and other areas which are suitable for functionally water-dependent uses, taking into consideration such factors as:

- (1) Shelter from prevailing winds and waves;
- (2) Slope of the land within 250 feet, horizontal distance, of the shoreline;
- (3) Depth of the water within 150 feet, horizontal distance, of the shoreline;
- (4) Available support facilities including utilities and transportation facilities; and
- (5) Compatibility with adjacent upland uses.

NOTE: A municipality may opt to identify one or more CFMA Districts, each of which may be as small as a single parcel, provided that the municipality includes in this district or combination of CFMA districts, all land currently occupied by or suitable for active water dependent uses, taking into consideration the above-listed factors.

G. Stream Protection District. The Stream Protection District includes all land areas within seventy-five (75) feet, horizontal distance, of the normal high-water line of a stream, exclusive of those areas within two-hundred and fifty (250) feet, horizontal distance, of the normal high-water line of a great pond, or river, or within two hundred and fifty (250) feet, horizontal distance, of the upland edge of a freshwater or coastal wetland. Where a stream and its associated shoreland area are located within two-hundred and fifty (250) feet, horizontal distance, of the above water bodies or wetlands, that land area shall be regulated under the terms of the shoreland district associated with that water body or wetland.

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15. Land Use Standards. All land use activities within the shoreland zone shall conform with the following provisions, if applicable.

NOTE: Municipalities should review the land use standards contained herein to determine whether they will result in a scale of development that is compatible with existing development or with the future desired scale of development. If not, more restrictive land use standards may be adopted by the municipality.

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A. Minimum Lot Standards

	Minimum Lot Area (sq. ft.)	Minimum Shore Frontage (ft.)
(1)		
(a) Residential per dwelling unit		
(i) Within the Shoreland Zone Adjacent to Tidal Areas	30,000	150
(ii) Within the Shoreland Zone Adjacent to Non-Tidal Areas	40,000	200
(b) Governmental, Institutional, Commercial or Industrial per principal structure		
(i) Within the Shoreland Zone Adjacent to Tidal Areas, Exclusive of Those Areas Zoned for Commercial Fisheries and Maritime Activities	40,000	200
(ii) Within the Shoreland Zone Adjacent to Tidal Areas Zoned for Commercial Fisheries and Maritime Activities	NONE	NONE
(iii) Within the Shoreland Zone Adjacent to Non-tidal Areas	60,000	300
(c) Public and Private Recreational Facilities		
(i) Within the Shoreland Zone Adjacent to Tidal and Non-Tidal Areas	40,000	200

NOTE: In a district equivalent to a General Development District that is served by municipal water and sewer systems the Department may approve a municipal shoreland zoning ordinance that provides for greater residential densities than set forth in Section 15(A)(1) above.

- (2) Land within the 100 year floodplain and below the normal high-water line of a water body or upland edge of a wetland, and land beneath roads serving more than two (2) lots shall not be included toward calculating minimum lot area.
- (3) Lots located on opposite sides of a public or private road shall be considered each a separate tract or parcel of land unless such road was established by the owner of land on both sides thereof after September 22, 1971.

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- (4) The minimum width of any portion of any lot within one hundred (100) feet, horizontal distance, of the normal high-water line of a water body or upland edge of a wetland shall be equal to or greater than the shore frontage requirement for a lot with the proposed use.
- (5) If more than one residential dwelling unit, principal governmental, institutional, commercial or industrial structure or use, or combination thereof, is constructed or established on a single parcel, all dimensional requirements shall be met for each additional dwelling unit, principal structure, or use.

NOTE: Municipalities may include provisions for clustered housing within the shoreland zone provided that the overall dimensional requirements, including frontage and lot area per dwelling unit, are met. When determining whether dimensional requirements are met, only land area within the shoreland zone shall be considered.

B. Principal and Accessory Structures

- (1) All new principal and accessory structures shall be set back at least one hundred (100) feet, horizontal distance, from the normal high-water line of great ponds classified GPA and rivers that flow to great ponds classified GPA, and seventy-five (75) feet, horizontal distance, from the elevation of the 100 year floodplain in tidal areas, and the normal high-water line of other water bodies, tributary streams, or the upland edge of a wetland, except that in the General Development I District the setback from the normal high-water line shall be at least twenty five (25) feet, horizontal distance, and in the Commercial Fisheries/Maritime Activities District there shall be no minimum setback. In the Shoreland Limited Residential District, in areas subject to shoreline erosion for which an annual erosion rate has been established by the Maine Geological Survey, the set back shall be either seventy-five (75) feet, horizontal distance, or seventy (70) times the measured annual erosion rate, whichever is greater. In the Resource Protection District the setback requirement shall be 250 feet, horizontal distance, except for structures, roads, parking spaces or other regulated objects specifically allowed in that district in which case the setback requirements specified above shall apply.

In addition:

- (a) The water body, tributary stream, or wetland setback provision shall neither apply to structures which require direct access to the water body or wetland as an operational necessity, such as piers, docks and retaining walls, nor to other functionally water-dependent uses.
- (b) All principal structures along Significant River Segments as listed in 38 M.R.S.A. section 437 (see Appendix B), shall be set back a minimum of one hundred and twenty-five (125) feet, horizontal distance, from the normal high-water line and shall be screened from the river by existing vegetation. This provision does not apply to structures related to hydropower facilities.
- (c) For principal structures, water and wetland setback measurements shall be taken from the top of a coastal bluff that has been identified on Coastal Bluff maps as being “highly unstable” or “unstable” by the Maine Geological Survey pursuant to its “Classification of Coastal Bluffs” and published on the most recent Coastal Bluff map. If the applicant and

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the permitting official(s) are in disagreement as to the specific location of a “highly unstable” or “unstable” bluff, or where the top of the bluff is located, the applicant may at his or her expense, employ a Maine Registered Professional Engineer, a Maine Certified Soil Scientist, a Maine State Geologist, or other qualified individual to make a determination. If agreement is still not reached, the applicant may appeal the matter to the board of appeals.

(d) For principal structures located adjacent to tidal waters, water and wetland setback measurements shall be taken from the contour line at the elevation of the 100 year floodplain.

NOTE: A municipality may choose not to adopt subparagraph B(1)(d) below. However, if a municipality elects to adopt a provision similar to that subparagraph, it must be no less restrictive.

~~(d)~~ (e) On a non-conforming lot of record on which only a residential structure exists, and it is not possible to place an accessory structure meeting the required water body, tributary stream or wetland setbacks, the code enforcement officer may issue a permit to place a single accessory structure, with no utilities, for the storage of yard tools and similar equipment. Such accessory structure shall not exceed eighty (80) square feet in area nor eight (8) feet in height, and shall be located as far from the shoreline or tributary stream as practical and shall meet all other applicable standards, including lot coverage and vegetation clearing limitations. In no case shall the structure be located closer to the shoreline or tributary stream than the principal structure.

NOTE: All tidal land which is subject to tidal action during the maximum spring tide is coastal wetland. In tidal areas, the shoreline position, defined as the upland edge of the coastal wetland, may established on the official shoreland zoning map by utilizing LiDAR data available from the Maine Office of GIS (MEGIS) to locate the contour line at the height of the maximum spring tide. Municipalities who wish to depict a more accurate shoreline in this manner should consult with their Regional Planning Commission or other mapping professionals.

NOTE: A municipality may within its ordinance, authorize the Planning Board to increase the required setback of a proposed structure, as a condition to permit approval, if necessary to accomplish the purposes of this ordinance. Instances where a greater setback may be appropriate include, but are not limited to: areas of steep slope; shallow or erodible soils; or where an adequate vegetative buffer does not exist.

NOTE: A tributary stream may be perennial or intermittent. Where a tributary stream is present within the shoreland zone, setback standards from that tributary stream are applicable.

(2) Principal or accessory structures and expansions of existing structures which are permitted in the Resource Protection, Limited Residential, Limited Commercial, and Stream Protection Districts, shall not exceed thirty-five (35) feet in height. This provision shall not apply to structures such as transmission towers, windmills, antennas, and similar structures having no floor area.

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- (3) The lowest floor elevation or openings of all buildings and structures, including basements, shall be elevated in tidal areas, at least three feet above the elevation of the 100 year flood, and in non-tidal areas, at least one foot above the elevation of the 100 year flood, the flood of record, or in the absence of these, the flood as defined by soil types identified as recent flood-plain soils. In no event shall any new principal structure be located within the limits of moderate wave action (LiMWA) landward of Coastal A or V zones, as defined in Federal Emergency Management Agency Procedure Memorandum #50, (Buckley 2008). In those municipalities that participate in the National Flood Insurance Program and have adopted the April 2005 version, or later version, of the Floodplain Management Ordinance, accessory structures may be placed in accordance with the standards of that ordinance and need not meet the elevation requirements of this paragraph.
- (4) The total footprint area of all structures, parking lots and other non-vegetated surfaces, within the shoreland zone shall not exceed twenty (20) percent of the lot or a portion thereof, located within the shoreland zone, including land area previously developed, except in the General Development District adjacent to tidal waters and rivers that do not flow to great ponds classified GPA, and in the Commercial Fisheries/Maritime Activities District, where lot coverage shall not exceed seventy (70) percent. Land below the elevation of the 100 year floodplain and the associated limit of moderate wave action buffer, shall be deducted from the total lot area, and shall not be included in the basis when calculating the maximum allowable footprint of non-vegetated surfaces.

Within any frontal or back dune areas, as designated by the Department of Environmental Protection Sand Dune Rules, the total footprint of all structures as defined by this ordinance, and parking lots and other non-vegetated surfaces shall not exceed fifteen (15) percent of the lot or portion thereof, located in said areas. As of {insert date of rule adoption} no developed lot within said frontal or back dune areas which exceeds the fifteen (15) percent footprint limit of frontal or back dune coverage, shall be allowed to add any additional footprint coverage within said areas.

NOTE: A municipality may choose not to adopt subparagraph B(5) below. However, if a municipality elects to adopt a provision similar to that subparagraph, it must be no less restrictive.

- (5) Retaining walls that are not necessary for erosion control shall meet the structure setback requirement, except for low retaining walls and associated fill provided all of the following conditions are met:
- (a) The site has been previously altered and an effective vegetated buffer does not exist;
 - (b) The wall(s) is(are) at least 25 feet, horizontal distance, from the normal high-water line of a water body, tributary stream, or upland edge of a wetland;
 - (d) The site where the retaining wall will be constructed is legally existing lawn or is a site eroding from lack of naturally occurring vegetation, and which cannot be stabilized with vegetative plantings;
 - (e) The total height of the wall(s), in the aggregate, are no more than 24 inches;

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- (e) Retaining walls are located outside of the 100-year floodplain on rivers, streams, coastal wetlands, and tributary streams, as designated on the Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Maps or Flood Hazard Boundary Maps, or the flood of record, or in the absence of these, by soil types identified as recent flood plain soils.
- (f) The area behind the wall is revegetated with grass, shrubs, trees, or a combination thereof, and no further structural development will occur within the setback area, including patios and decks; and
- (g) A vegetated buffer area is established within 25 feet, horizontal distance, of the normal high-water line of a water body, tributary stream, or upland edge of a wetland when a natural buffer area does not exist. The buffer area must meet the following characteristics:
 - (i) The buffer must include shrubs and other woody and herbaceous vegetation. Where natural ground cover is lacking the area must be supplemented with leaf or bark mulch;
 - (ii) Vegetation plantings must be in quantities sufficient to retard erosion and provide for effective infiltration of stormwater runoff;
 - (iii) Only native species may be used to establish the buffer area;
 - (iv) A minimum buffer width of 15 feet, horizontal distance, is required, measured perpendicularly to the normal high-water line or upland edge of a wetland;
 - (v) A footpath not to exceed the standards in Section 15(P)(2)(a), may traverse the buffer;

NOTE: If the wall and associated soil disturbance occurs within 75 feet, horizontal distance, of a water body, tributary stream or coastal wetland, a permit pursuant to the Natural Resource Protection Act is required from the Department of Environmental Protection.

- (6) Notwithstanding the requirements stated above, stairways or similar structures may be allowed with a permit from the Code Enforcement Officer, to provide shoreline access in areas of steep slopes or unstable soils provided: that the structure is limited to a maximum of four (4) feet in width; that the structure does not extend below or over the normal high-water line of a water body or upland edge of a wetland, (unless permitted by the Department of Environmental Protection pursuant to the Natural Resources Protection Act, 38 M.R.S.A. section 480-C); and that the applicant demonstrates that no reasonable access alternative exists on the property.

NOTE: If a municipality elects not to regulate structures and uses extending over or below a water body or wetland, Section 15(C) should not be incorporated into the Ordinance.

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H. Roads and Driveways. The following standards shall apply to the construction of roads and/or driveways and drainage systems, culverts and other related features.

- (1) Roads and driveways shall be set back at least one-hundred (100) feet, horizontal distance, from the normal high-water line of a great pond classified GPA or a river that flows to a great pond classified GPA, and seventy-five (75) feet, horizontal distance from the normal high-water line of other water bodies, tributary streams, or the upland edge of a wetland unless no reasonable alternative exists as determined by the Planning Board. If no other reasonable alternative exists, the road and/or driveway setback requirement shall be no less than fifty (50) feet, horizontal distance, upon clear showing by the applicant that appropriate techniques will be used to prevent sedimentation of the water body, tributary stream, or wetland. Such techniques may include, but are not limited to, the installation of settling basins, and/or the effective use of additional ditch relief culverts and turnouts placed so as to avoid sedimentation of the water body, tributary stream, or wetland.

On slopes of greater than twenty (20) percent the road and/or driveway setback shall be increased by ten (10) feet, horizontal distance, for each five (5) percent increase in slope above twenty (20) percent.

Section 15 (H)(1) does not apply to approaches to water crossings or to roads or driveways that provide access to permitted structures and facilities located nearer to the shoreline or tributary stream due to an operational necessity, excluding temporary docks for recreational uses. Roads and driveways providing access to permitted structures within the setback area shall comply fully with the requirements of Section 15(H)(1) except for that portion of the road or driveway necessary for direct access to the structure.

- (2) Existing public roads may be expanded within the legal road right of way regardless of their setback from a water body, tributary stream or wetland.
- (3) New permanent roads are not allowed within the shoreland zone along Significant River Segments except:
 - (a) To provide access to structures or facilities within the zone; or
 - (b) When the applicant demonstrates that no reasonable alternative route exists outside the shoreland zone. When roads must be located within the shoreland zone they shall be set back as far as practicable from the normal high-water line and screened from the river by existing vegetation.
- (2) New roads and driveways are prohibited in a Resource Protection District except that the Planning Board may grant a permit to construct a road or driveway to provide access to permitted uses within the district. A road or driveway may also be approved by the Planning Board in a Resource Protection District, upon a finding that no reasonable alternative route or location is available outside the district. When a road or driveway is permitted in a Resource Protection District the road and/or driveway shall be set back as far as practicable from the normal high-water line of a water body, tributary stream, or upland edge of a wetland.

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- (4) In no event shall a new road or driveway be located within a 100 year floodplain, except for crossings where no reasonable alternative exists as determined by the Planning Board. Crossings over a 100 year floodplain shall be elevated three feet above the height of the 100 year flood as determined by the latest FEMA flood insurance rate map, or by a professional engineer, where no flood height has been determined.
- (5) Road and driveway banks shall be no steeper than a slope of two (2) horizontal to one (1) vertical, and shall be graded and stabilized in accordance with the provisions for erosion and sedimentation control contained in Section 15(Q).
- (6) Road and driveway grades shall be no greater than ten (10) percent except for segments of less than two hundred (200) feet.
- (7) In order to prevent road and driveway surface drainage from directly entering water bodies, tributary streams or wetlands, roads and driveways shall be designed, constructed, and maintained to empty onto an unscarified buffer strip at least (50) feet plus two times the average slope, in width between the outflow point of the ditch or culvert and the normal high-water line of a water body, tributary stream, or upland edge of a wetland. Surface drainage which is directed to an unscarified buffer strip shall be diffused or spread out to promote infiltration of the runoff and to minimize channelized flow of the drainage through the buffer strip.
- (8) Ditch relief (cross drainage) culverts, drainage dips and water turnouts shall be installed in a manner effective in directing drainage onto unscarified buffer strips before the flow gains sufficient volume or head to erode the road, driveway, or ditch. To accomplish this, the following shall apply:
- (a) Ditch relief culverts, drainage dips and associated water turnouts shall be spaced along the road, or driveway at intervals no greater than indicated in the following table:

Grade (Percent)	Spacing (Feet)
0-2	250
3-5	200-135
6-10	100-80
11-15	80-60
16-20	60-45
21 +	40

- (b) Drainage dips may be used in place of ditch relief culverts only where the grade is ten (10) percent or less.
- (c) On sections having slopes greater than ten (10) percent, ditch relief culverts shall be placed at approximately a thirty (30) degree angle downslope from a line perpendicular to the centerline of the road or driveway.

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(d) Ditch relief culverts shall be sufficiently sized and properly installed in order to allow for effective functioning, and their inlet and outlet ends shall be stabilized with appropriate materials.

(9) Ditches, culverts, bridges, dips, water turnouts and other storm water runoff control installations associated with roads and driveways shall be maintained on a regular basis to assure effective functioning.

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17. Definitions.

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Coastal wetland - all tidal and subtidal lands; all lands with vegetation present that is tolerant of salt water and occurs primarily in a salt water or estuarine habitat; and any swamp, marsh, bog, beach, flat or other contiguous low land that is subject to tidal action during the highest tide level for the year in which an activity is proposed as identified in tide tables published by the National Ocean Service. Coastal wetlands may include portions of coastal sand dunes. In tidal areas, the shoreline position, defined as the upland edge of the coastal wetland, may established on the official shoreland zoning map by utilizing LiDAR data available from the Maine Office of GIS (MEGIS) to locate the contour line at the height of the maximum spring tide.

NOTE: All areas below the maximum spring tide level are coastal wetlands. These areas may consist of rocky ledges, sand and cobble beaches, mud flats, etc., in addition to salt marshes and salt meadows.

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Limits of Moderate Wave Action (LiMWA) – As defined in FEMA Memorandum #50 (Buckley, 2008), the landward limit of the 1.5-foot breaking wave during a 100 year flood event.

Lot area - The area of land enclosed within the boundary lines of a lot, minus:

- (1) land below the normal high-water line of a water body or upland edge of a wetland; and
- (2) land within the 100 year floodplain; and
- (3) land areas beneath roads serving more than two lots.

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Normal high-water line (non-tidal waters) - that line which is apparent from visible markings, changes in the character of soils due to prolonged action of the water or changes in vegetation, and which distinguishes between predominantly aquatic and predominantly terrestrial land. Areas contiguous with rivers and great ponds that support non-forested wetland vegetation and hydric soils and that are at the same or lower elevation as the water level of the river or great pond during the period of normal high-water are considered part of the river or great pond.

NOTE: Adjacent to tidal waters, setbacks are measured from the ~~upland edge of the “coastal wetland.”~~

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Shoreland zone - the land area located within two hundred and fifty (250) feet, horizontal distance, of the normal high-water line of any great pond or river; within 250 feet, horizontal distance, of the upland edge of a coastal wetland, ~~including all areas affected by tidal action~~ defined as the contour line at the elevation of the highest annual tide level; within 250 feet of the upland edge of a freshwater wetland; or within seventy-five (75) feet, horizontal distance, of the normal high-water line of a stream.

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Stream –

(1) a free-flowing body of water from the outlet of a great pond or the confluence of two (2) perennial streams as depicted on the most recent edition of a United States Geological Survey 7.5 minute series topographic map, or if not available, a 15-minute series topographic map, to the point where the body of water becomes a river or flows to another water body or wetland within the shoreland area; or

(2) any stream or stream segment depicted as having a 100 year floodplain on a FEMA Flood Insurance Rate Map.