





















**26—HYDROLOGIC FEATURES**

REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS	NOTES ON USAGE
<b>26.1—Hydrography and hydrologic feature identification symbology</b>				
26.1.1	Alkali flat		line weight .175 mm dash 1.75 mm; space .5 mm line color 100% cyan	
26.1.2	Large, dammed reservoir		fill color 20% cyan line weight .3 mm line color 100% cyan	
26.1.3	Small reservoir		fill color 20% cyan line weight .15 mm	
26.1.4	Covered reservoir		line weight .15 mm pattern 214-K (@ 45°)	
26.1.5	Glacier or permanent snowfield—Showing glacial trend		line weight .175 mm; dash 1.75 mm; space .5 mm line color 100% cyan pattern 502-C (rotated perpendicular to glacial trend)	
26.1.6	Salt evaporator		all line weights .175 mm line color 100% cyan	
26.1.7	Inundation area		line weight .175 mm; dash 1.75 mm; space .5 mm line color 100% cyan pattern 231-C (at 90°)	
26.1.8	Fish hatchery or farm		line weight .15 mm fill color 20% cyan	
26.1.9	Industrial water impoundment		line weight .15 mm fill color 20% cyan	
26.1.10	Area to be submerged		line weights .2 mm in 100% cyan line weight .3 mm in 100% black fill color 20% cyan pattern 201-C (at 135°)	
26.1.11	Sewage disposal or filtration pond		line weights .15 mm pattern 201-C (at 135°)	
26.1.12	Tailings pond		line color 100% brown line weight .175 mm; dash 2.0 mm; space 0.5 mm pattern 422-B	
26.1.13	Marsh, wetland, swamp, or bog		pattern 420-C	
26.1.14	Mangrove area		pattern 424-C	
26.1.15	Rice field		pattern 423-C	
26.1.16	Cranberry bog		line weight .175 mm line color 100% cyan pattern 425-C	
26.1.17	Tidal, mud, sand, or gravel flats		line weight .15 mm dash 1.75 mm; space .5 mm over fill color 20% cyan pattern 421-K	
26.1.18	Coastline of bay, estuary, gulf, ocean, or sea		line weight .2 mm fill color 20% cyan line color 100% cyan	
26.1.19	Shoal		line weight .2 mm dash .2 mm; space .425 mm	
26.1.20	Soda evaporator		all line weights .175 mm line color 100% cyan	

**26—HYDROLOGIC FEATURES (continued)**

REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS	NOTES ON USAGE
<b>26.1—Hydrography and hydrologic feature identification symbology (continued)</b>				
26.1.21	Shoreline		lineweight .2 mm line color 100% cyan	
26.1.22	Manmade shoreline		all line colors 100% cyan lineweight .2 mm dash 1.75 mm; space .5 mm	
26.1.23	Indefinite shoreline		lineweight .15 mm line color 100% cyan dash 1.75 mm; space .5 mm	
26.1.24	Apparent limit of water body		H-7 → Apparent Limit lineweight .15 mm; line color 100% cyan	
26.1.25	Outline of a Carolina bay		lineweight .2 mm line color 100% cyan dash 1.75 mm; space .5 mm	
26.1.26	Danger curve		lineweight .15 mm dash .375 mm; space .375 mm	
26.1.27	Spring, as shown on general-purpose or smaller scale maps		lineweight .15 mm H-7 → Spring draft as shown line color 100% cyan circle diameter 1.0 mm	Rotate tail to point in downhill direction of flow.
26.1.28	Nonflowing well, as shown on general-purpose or smaller scale maps		lineweight .15 mm Nonflowing Well line color 100% cyan circle diameter 1.0 mm	
26.1.29	Flowing well, as shown on general-purpose or smaller scale maps		lineweight .15 mm Flowing Well line color 100% cyan circle diameter 1.0 mm	
26.1.30	Riser		H-7 → Riser lineweight .15 mm circle diameter .75 mm	
26.1.31	Geyser, as shown on general-purpose or smaller scale maps		lineweight .15 mm Geyser line color 100% cyan circle diameter 1.0 mm	
26.1.32	Windmill		all lineweights .15 mm H-7 → Windmill windmill arm angles 110°, 70° 1.125 mm 1.25 mm .675 mm	
26.1.33	Rapids on single-line drainage		all lineweights .2 mm hachure height 1.25 mm; spacing .5 mm all line colors 100% cyan	
26.1.34	Rapids on double-line drainage		all line colors 100% cyan hachure lineweight .125 mm; height .825 mm; spacing .425 mm lineweight .2 mm	
26.1.35	Falls on single-line drainage		all line colors 100% cyan all lineweights .2 mm hachure height 1.25 mm	
26.1.36	Falls on double-line drainage		all line colors 100% cyan lineweight .2 mm hachure lineweight .125 mm; height .825 mm; spacing .425 mm	
26.1.37	Gravel pit or quarry filled with water		circle diameter 3.0 mm arrow length 2.5 mm; arrowhead .75 mm x .75 mm all lineweights .15 mm	
26.1.38	Gaging station, as shown on general-purpose or smaller scale maps		lineweight .15 mm Gaging Station circle diameter 1.25 mm	
26.1.39	Pumping station		H-7 → Pumping Station lineweight .15 mm circle diameter .875 mm	
26.1.40	Water intake		lineweight .2 mm circle diameter 1.75 mm dot diameter .375 mm	

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REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS	NOTES ON USAGE
<b>26.1—Hydrography and hydrologic feature identification symbology (continued)</b>				
26.1.41	Dam or weir		spacing may vary →  line weight .3 mm color fill 20% cyan line weights .2 mm; line colors 100% cyan	
26.1.42	Canal lock or sluice gate		line weight .2 mm; line color 100% cyan Lock ← H-7 wing line weight .175 mm; minimum length .575 mm	
26.1.43	Spillway		HI-5 →  SPILLWAY ← H-7 line weight .175 mm dash 1.75 mm; space .5 mm line and text color 100% cyan	
26.1.44	Gate (flood, tidal, head, or check)		line weight .2 mm; line color 100% cyan Gate ← H-7 bar line weight .25 mm; length 1.5 mm	
26.1.45	Rock		H-7 →  Rock * ← H-7 line weight .2 mm → 1.25 mm	
26.1.46	Crevasse		line weight .15 mm length and spacing may vary	
26.1.47	Stream—Perennial		line weight .2 mm line color 100% cyan	
26.1.48	Stream—Intermittent, type 1		line weight .15 mm line color 100% cyan	
26.1.49	Stream—Intermittent, type 2		line weight .2 mm line color 100% cyan dash length 4.0 mm dot diameter .3 mm; spacing .625 mm	
26.1.50	Braided stream—Perennial		line weight .2 mm line color 100% cyan	
26.1.51	Braided stream—Intermittent		line weight .15 mm line color 100% cyan	
26.1.52	Ditch—Perennial		HI-5 →  DITCH ← H-5 line and text color 100% cyan	
26.1.53	Ditch—Intermittent		HI-5 →  DITCH ← H-5 line and text color 100% cyan	
26.1.54	Aqueduct—Perennial		line weight .2 mm spacing may vary →  fill color 20% cyan line color 100% cyan	
26.1.55	Aqueduct—Intermittent		line weight .15 mm spacing may vary →  fill color 20% cyan line color 100% cyan	
26.1.56	Flume—Perennial		all line weights .2 mm wing length .575 mm; angle 45° HI-5 →  FLUME ← H-5 dash 1.25 mm; space .5 mm line and text color 100% cyan	
26.1.57	Flume—Intermittent		all line weights .15 mm wing length .575 mm; angle 45° HI-5 →  FLUME ← H-5 dash 1.25 mm; space .5 mm line and text color 100% cyan	
26.1.58	Penstock—Perennial		all line weights .2 mm wing length .575 mm; angle 45° HI-5 →  PENSTOCK ← H-5 dash 1.25 mm; space .5 mm line and text color 100% cyan	
26.1.59	Penstock—Intermittent		all line weights .15 mm wing length .575 mm; angle 45° HI-5 →  PENSTOCK ← H-5 dash 1.25 mm; space .5 mm line and text color 100% cyan	

**26—HYDROLOGIC FEATURES (continued)**

REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS	NOTES ON USAGE
<b>26.1—Hydrography and hydrologic feature identification symbology (continued)</b>				
26.1.60	Siphon—Perennial		lineweight .2 mm dash 2.5 mm; space .5 mm line and text color 100% cyan HI-5	
26.1.61	Siphon—Intermittent		lineweight .15 mm dash 2.5 mm; space .5 mm line and text color 100% cyan HI-5	
26.1.62	Channel in open water—Perennial		lineweight .2 mm; dash 2.5 mm; space .5 mm line and text color 100% cyan; fill color 20% cyan HI-5 spacing may vary	
26.1.63	Channel in open water—Intermittent		lineweight .15 mm; dash 2.5 mm; space .5 mm line and text color 100% cyan; fill color 20% cyan HI-5 spacing may vary	
26.1.64	Wash or ephemeral drain		pattern 421-B	
26.1.65	Lake or pond		lineweight .2 mm line color 100% cyan fill color 20% cyan	
26.1.66	Coral reef		lineweight (coastline) .2 mm in 100% cyan lineweight (coral reef) .125 mm fill color 20% cyan	
26.1.67	Sand in open water, type 1		lineweight .175 mm dash .175 mm; space .375 mm fill color 20% cyan H-7	
26.1.68	Sand in open water, type 2		fill color 20% cyan H-7	
26.1.69	Spoil area in open water		lineweight .175 mm dash 2.5 mm; space .5 mm fill color 20% cyan H-7	
26.1.70	Right bank		all lineweights .2 mm	
26.1.71	Left bank		line color 100% cyan fill color 20% cyan arrow length 7.0 mm; arrowhead angle 25°	
26.1.72	Submerged or sunken hydrologic feature		lineweight .2 mm dash 2.0 mm; space 1.0 mm line and text color 100% cyan HI-5	
26.1.73	Dry hydrologic feature		lineweight .15 mm dash 2.0 mm; space .5 mm line color 100% cyan pattern 119-C	
26.1.74	Salt	Salt	H-7	
26.1.75	Mineral or hot spring (such as sulfur or alkali)	Sulfur	H-7	
26.1.76	Water surface elevation	ELEVATION 127	HI-7	
26.1.77	River mile	+ MILE 460	lineweight .175 mm 2.0 mm H-8	

**26—HYDROLOGIC FEATURES (continued)**

REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS	NOTES ON USAGE
<b>26.2—Water wells</b>				
26.2.1	Water well—Type of use unspecified	○	lineweight .15 mm diameter 1.75 mm	Circle indicates specific type of water-supply well; may be used alone or in combination with various ornamentations shown below. May also be drawn in cyan or other colors.
26.2.2	Well—Used for domestic-water supply	●	diameter 1.75 mm	
26.2.3	Well—Used for stock-water supply	○	lineweight .2 mm diameter 1.75 mm	
26.2.4	Well—Used for irrigation-water supply	⊙	outer circle diameter 2.0 mm; lineweight .2 mm inner circle diameter 1.125 mm; lineweight .15 mm	
26.2.5	Well—Used for industrial-water supply	⦿	circle diameter 2.0 mm; lineweight .2 mm dot diameter 1.125 mm	
26.2.6	Well—Used for public-water supply	○	lineweight .375 mm diameter 2.0 mm	
26.2.7	Water well—Unused	∅	circle diameter 1.75 mm; lineweight .15 mm bar lineweight .3 mm	
26.2.8	Artesian well	⦿	2.0 mm 20° 1.25 mm arrow lineweight .15 mm circle diameter 1.75 mm; lineweight .2 mm	
26.2.9	Nonflowing artesian well	⦿	radius .3125 mm 1.375 mm lineweight .175 mm circle diameter 1.75 mm; lineweight .2 mm	
26.2.10	Water recharge or waste-injection well	⦿	2.0 mm 20° 1.25 mm arrow lineweight .15 mm circle diameter 1.75 mm; lineweight .2 mm	
26.2.11	Observation water well	∅	circle diameter 1.75 mm; lineweight .2 mm bar lineweight .3 mm	
26.2.12	Observation water well—Equipped with recorder	∅ <sup>R</sup>	R ← H-6	
26.2.13	Abandoned water well	∅	all lineweights .2 mm circle diameter 1.75 mm 45° 3.75 mm	
26.2.14	Destroyed water well	⊗	all lineweights .2 mm circle diameter 1.75 mm 45° 3.75 mm	
26.2.15	Test hole for water	⊕	center bar .6 mm lineweights .15 mm circle diameter 1.75 mm; lineweight .2 mm	
26.2.16	Water well—Capped	⦿	1.25 mm all lineweights .2 mm circle diameter 1.75 mm	
26.2.17	Water well—Shut-in	⊖	all lineweights .2 mm	
26.2.18	Dry hole—Water exploration	⊖	all lineweights .2 mm 1.0 mm circle diameter 1.75 mm	
26.2.19	Well—Used for collection of water data	⊖	all lineweights .2 mm 1.0 mm circle diameter 1.75 mm	

**26—HYDROLOGIC FEATURES (continued)**

REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS	NOTES ON USAGE
<b>26.3—Water gaging stations</b>				
26.3.1	Gaging station—Type of measurement unspecified		2.375 mm lineweight .15 mm 	Triangle indicates specific type of gaging station; may be used alone or in combination with various ornamentations shown below.  May be combined with symbols for quality-of-water sites; place triangle above and adjoining quality-of-water site symbol.  Usually reserved for use on larger scale, special-purpose maps.
26.3.2	Gaging station—Continuous-record			
26.3.3	Gaging station—Partial-record		lineweight .175 mm 	
26.3.4	Measurement station without a gage		lineweight .2 mm 	
26.3.5	Discontinued gaging station		triangle lineweight .2 mm 3.75 mm bar lineweight .3 mm 	
26.3.6	Gaging station—Equipped with a telephone or radio		1.25 mm 1.5 mm 60° .875 mm "antenna" lineweight .175 mm 	
26.3.7	Peak-flow measurement station		25° 2.0 mm 1.25 mm arrow lineweight .15 mm 	
26.3.8	Low-flow measurement station		25° 2.0 mm 1.25 mm arrow lineweight .15 mm 	
26.3.9	Stage-measurement station		3.0 mm 1.125 mm crossbar lineweight .2 mm 	
<b>26.4—Quality-of-water sites</b>				
26.4.1	Quality-of-water site—Type of measurement unspecified		2.375 mm lineweight .15 mm 60° 	Inverted triangle indicates specific type of quality-of-water site; may be used alone or in combination with various ornamentations shown below.  May be combined with symbols for gaging stations; place inverted triangle below and adjoining gaging station symbol.  Although only shown with symbol used for active quality-of-water site, ornamentation may be added to any type of quality-of-water site symbol.
26.4.2	Active quality-of-water site			
26.4.3	Active quality-of-water site—Equipped with a monitor		lineweight .375 mm 	
26.4.4	Inactive quality-of-water site		triangle lineweight .2 mm 3.75 mm bar lineweight .3 mm 	
26.4.5	Quality-of-water site—Chemical measurement		1.25 mm bar lineweight .25 mm 	
26.4.6	Quality-of-water site—Temperature measurement		1.25 mm bar lineweight .25 mm 	
26.4.7	Quality-of-water site—Biological measurement		1.25 mm bar lineweight .25 mm 	
26.4.8	Quality-of-water site—Sediment measurement		1.25 mm bar lineweight .25 mm 	

**26—HYDROLOGIC FEATURES (continued)**

REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS	NOTES ON USAGE
<b>26.5—Springs</b>				
26.5.1	Spring—Type of use unspecified		all lineweights .15 mm circle diameter 1.75 mm radius .325 mm tail diameter .625 mm tail width 2.0 mm	Circle and tail indicate specific type of spring; may be used alone or in combination with various ornamentations shown below. Rotate tail to point in downhill direction of flow. May also be drawn in cyan or other colors.
26.5.2	Spring—Used for collection of water-quality data		all lineweights .2 mm dot diameter .375 mm	
26.5.3	Spring—Used for domestic-water supply		dot diameter 1.75 mm lineweight .2 mm	
26.5.4	Spring—Used for irrigation-water supply		outer circle diameter 2.0 mm; lineweight .2 mm inner circle diameter 1.125 mm; lineweight .15 mm	
26.5.5	Spring—Used for industrial-water supply		all lineweights .2 mm circle diameter 2.0 mm dot diameter 2.0 mm	
26.5.6	Spring—Used for public-water supply		circle diameter 2.0 mm; lineweight .375 mm lineweight .2 mm	
26.5.7	Unused spring		circle diameter 1.75 mm 3.75 mm spring symbol lineweight .2 mm bar lineweight .3 mm	
26.5.8	Thermal spring		H-6 → T	
26.5.9	Mineral spring		H-6 → M	
26.5.10	Extinct spring		3.75 mm lineweight .2 mm 45°	
<b>26.6—Miscellaneous hydrologic symbols</b>				
26.6.1	Surface-water basin boundary		lineweight .6 mm dash length 7.5 mm dot diameter .625 mm; spacing .5 mm	May also be drawn in cyan or other colors.
26.6.2	Surface-water subbasin boundary		lineweight .425 mm dash length 5.0 mm dot diameter .45 mm; spacing .5 mm	
26.6.3	Ground-water divide—Certain		dot diameter .675 mm; spacing .575 mm	
26.6.4	Ground-water divide—Approximately located		circle lineweight .15 mm; diameter .675 mm; spacing .575 mm	
26.6.5	Ground-water barrier—Certain		lineweight .175 mm dot diameter .675 mm; spacing .575 mm	
26.6.6	Ground-water barrier—Approximately located		lineweight .175 mm circle lineweight .15 mm; diameter .675 mm; spacing .575 mm	
26.6.7	Infiltration gallery		all lineweights .15 mm 1.75 mm 6.25 mm 1.125 mm	
26.6.8	Direction of ground-water flow, type 1—Certain		1.125 mm 5.75 mm 30° 2.125 mm	
26.6.9	Direction of ground-water flow, type 2—Certain		lineweight .15 mm	
26.6.10	Direction of ground-water flow, type 1—Approximate		6.75 mm all lineweights .25 mm 2.75 mm 1.5 mm 25°	
26.6.11	Direction of ground-water flow, type 2—Approximate		dash 1.5 mm; space .5 mm	