2—FAULTS

<table>
<thead>
<tr>
<th>REF NO</th>
<th>DESCRIPTION</th>
<th>SYMBOL</th>
<th>CARTOGRAPHIC SPECIFICATIONS</th>
<th>NOTES ON USAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1.1</td>
<td>Fault—Certain</td>
<td></td>
<td>lineweight .375 mm</td>
<td>Use nonspecific, non-ornamented faults when character or sense of offset of fault is unknown; use also on small-scale maps to show regional fault patterns. If character or sense of offset is known and if scale allows, use various types of ornamented faults to indicate relative motion.</td>
</tr>
<tr>
<td>2.1.2</td>
<td>Fault—Approximately located</td>
<td></td>
<td>4.0 mm H-8</td>
<td></td>
</tr>
<tr>
<td>2.1.3</td>
<td>Fault—Approximately located, queried</td>
<td></td>
<td>1.0 mm H-8</td>
<td></td>
</tr>
<tr>
<td>2.1.4</td>
<td>Fault—Inferred</td>
<td></td>
<td>1.5 mm H-8</td>
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<tr>
<td>2.1.5</td>
<td>Fault—Inferred, queried</td>
<td></td>
<td>1.0 mm H-8</td>
<td></td>
</tr>
<tr>
<td>2.1.6</td>
<td>Fault—Concealed</td>
<td></td>
<td>.5 mm H-8</td>
<td>Place symbol ornamentation where observation was made.</td>
</tr>
<tr>
<td>2.1.7</td>
<td>Fault—Concealed, queried</td>
<td></td>
<td>.5 mm H-8</td>
<td></td>
</tr>
<tr>
<td>2.1.8</td>
<td>Fault—Showing name</td>
<td></td>
<td>GOLDEN FAULT</td>
<td>Dip value indicates a measured dip direction and magnitude; add 90 if necessary for clarity.</td>
</tr>
<tr>
<td>2.1.9</td>
<td>Fault—Showing dip where known</td>
<td></td>
<td>15 90</td>
<td>Arrow shows lineation on fault surface; tick and arrow may be combined to show dip and lineation at one locality. Use U/D on normal faults when ball and bar not used. Use A/T on strike-slip faults in cross section. Usually reserved for maps at scales of 1:1,000,000 or smaller.</td>
</tr>
<tr>
<td>2.1.10</td>
<td>Fault—Showing direction and plunge of lineation where known</td>
<td></td>
<td>65 3.0 mm H-6 tick lineweight .15 mm</td>
<td></td>
</tr>
<tr>
<td>2.1.11</td>
<td>Fault—Tick shows direction of dip of fault; arrow shows direction of lineation on fault</td>
<td></td>
<td>1.75 mm H-6</td>
<td></td>
</tr>
<tr>
<td>2.1.12</td>
<td>Fault—Showing relative motion: U, upthrown block; D, downthrown block</td>
<td></td>
<td>U D</td>
<td></td>
</tr>
<tr>
<td>2.1.13</td>
<td>Fault—Showing relative motion in cross section: A, away from observer; T, toward observer</td>
<td></td>
<td>A T</td>
<td></td>
</tr>
<tr>
<td>2.1.14</td>
<td>Normal fault on small-scale maps—Tick on downthrown side</td>
<td></td>
<td>hachure lineweight .175 mm</td>
<td></td>
</tr>
<tr>
<td>2.1.15</td>
<td>Graben on small-scale maps—Ticks on downthrown side</td>
<td></td>
<td>.75 mm H-7</td>
<td></td>
</tr>
<tr>
<td>2.1.16</td>
<td>Reverse fault on small-scale maps—R on upthrown block</td>
<td></td>
<td>R H-7</td>
<td>Use S-shaped symbols to indicate trend of mylonite or other linear shear zones; spacing may be varied to show intensity of shear. Width of zone may vary. Patterns may overprint other units or be used as map units alone; add contacts when shear zones have well-defined boundaries. Use to show minor faults observed in outcrop in terrain where they cannot be traced elsewhere.</td>
</tr>
<tr>
<td>2.1.17</td>
<td>Shear zone</td>
<td></td>
<td>lineweight .15 mm</td>
<td></td>
</tr>
<tr>
<td>2.1.18</td>
<td>Zone of sheared rock within fault, type 1</td>
<td></td>
<td>pattern 406-K (at ~45° to trend on map)</td>
<td></td>
</tr>
<tr>
<td>2.1.19</td>
<td>Zone of sheared rock within fault, type 2</td>
<td></td>
<td>pattern 401-K</td>
<td></td>
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<tr>
<td>2.1.20</td>
<td>Zone of sheared rock around fault</td>
<td></td>
<td>pattern 401-K</td>
<td></td>
</tr>
<tr>
<td>2.1.21</td>
<td>Minor inclined fault—Showing strike and dip</td>
<td></td>
<td>1.375 mm H-6 tick lineweight .2 mm</td>
<td></td>
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<tr>
<td>2.1.22</td>
<td>Minor vertical or near-vertical fault—Showing strike</td>
<td></td>
<td>2.5 mm H-7</td>
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## 2—FAULTS (continued)

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<thead>
<tr>
<th>REF NO</th>
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<tbody>
<tr>
<td>2.2.1</td>
<td>Normal fault—Certain</td>
<td>![Symbol]</td>
<td>1.0 mm lineweight .375 mm tick lineweight .15 mm</td>
<td>Ball and bar on downthrown block. Place ball and bar along fault to indicate general character of fault segment, not necessarily at a specific locality where an observation was made. Ball and bar symbol is preferred over U/D notation; do not mix both types on same map.</td>
</tr>
<tr>
<td>2.2.2</td>
<td>Normal fault—Approximately located</td>
<td>![Symbol]</td>
<td>4.0 mm</td>
<td></td>
</tr>
<tr>
<td>2.2.3</td>
<td>Normal fault—Approximately located, queried</td>
<td>![Symbol]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.2.4</td>
<td>Normal fault—Inferred</td>
<td>![Symbol]</td>
<td>1.5 mm lineweight .375 mm arrow lineweight .2 mm</td>
<td></td>
</tr>
<tr>
<td>2.2.5</td>
<td>Normal fault—Inferred, queried</td>
<td>![Symbol]</td>
<td></td>
<td></td>
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<tr>
<td>2.2.6</td>
<td>Normal fault—Concealed</td>
<td>![Symbol]</td>
<td>.5 mm lineweight .375 mm</td>
<td>In cross section, use paired arrows (used for strike-slip faults in map view) to show normal offset.</td>
</tr>
<tr>
<td>2.2.7</td>
<td>Normal fault—Concealed, queried</td>
<td>![Symbol]</td>
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## 2.3—Strike-slip faults

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<th>NOTES ON USAGE</th>
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<tbody>
<tr>
<td>2.3.1</td>
<td>Strike-slip fault, right-lateral offset—Certain</td>
<td>![Symbol]</td>
<td>1.0 mm lineweight .375 mm arrow lineweight .2 mm</td>
<td>Arrows show relative motion. Place arrows along fault to indicate general character of fault segment, not necessarily at a specific locality where an observation was made. Use paired, not single, arrows whenever possible. Strike-slip arrows may be combined with ball and bar symbol to show oblique offset.</td>
</tr>
<tr>
<td>2.3.2</td>
<td>Strike-slip fault, right-lateral offset—Approximately located</td>
<td>![Symbol]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.3.3</td>
<td>Strike-slip fault, right-lateral offset—Approximately located, queried</td>
<td>![Symbol]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.3.4</td>
<td>Strike-slip fault, right-lateral offset—Inferred</td>
<td>![Symbol]</td>
<td>1.5 mm lineweight .375 mm arrow lineweight .2 mm</td>
<td></td>
</tr>
<tr>
<td>2.3.5</td>
<td>Strike-slip fault, right-lateral offset—Inferred, queried</td>
<td>![Symbol]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.3.6</td>
<td>Strike-slip fault, right-lateral offset—Concealed</td>
<td>![Symbol]</td>
<td>.5 mm lineweight .375 mm</td>
<td>A/T notation to show strike-slip offset. Paired arrows may also be used in cross section to show normal or thrust offset.</td>
</tr>
<tr>
<td>2.3.7</td>
<td>Strike-slip fault, right-lateral offset—Concealed, queried</td>
<td>![Symbol]</td>
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<tr>
<td>2.3.8</td>
<td>Strike-slip fault, left-lateral offset—Certain</td>
<td>![Symbol]</td>
<td>1.0 mm lineweight .375 mm arrow lineweight .2 mm</td>
<td>Arrows show relative motion. Place arrows along fault to indicate general character of fault segment, not necessarily at a specific locality where an observation was made. Use paired, not single, arrows whenever possible. Strike-slip arrows may be combined with ball and bar symbol to show oblique offset.</td>
</tr>
<tr>
<td>2.3.9</td>
<td>Strike-slip fault, left-lateral offset—Approximately located</td>
<td>![Symbol]</td>
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<tr>
<td>2.3.10</td>
<td>Strike-slip fault, left-lateral offset—Approximately located, queried</td>
<td>![Symbol]</td>
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<tr>
<td>2.3.11</td>
<td>Strike-slip fault, left-lateral offset—Inferred</td>
<td>![Symbol]</td>
<td>1.5 mm lineweight .375 mm arrow lineweight .2 mm</td>
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</tr>
<tr>
<td>2.3.12</td>
<td>Strike-slip fault, left-lateral offset—Inferred, queried</td>
<td>![Symbol]</td>
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<tr>
<td>2.3.13</td>
<td>Strike-slip fault, left-lateral offset—Concealed</td>
<td>![Symbol]</td>
<td>.5 mm lineweight .375 mm</td>
<td>A/T notation to show strike-slip offset. Paired arrows may also be used in cross section to show normal or thrust offset.</td>
</tr>
<tr>
<td>2.3.14</td>
<td>Strike-slip fault, left-lateral offset—Concealed, queried</td>
<td>![Symbol]</td>
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2—FAULTS (continued)

<table>
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<tr>
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<tbody>
<tr>
<td>2.4.1</td>
<td>Thrust fault, 1st generation—Certain</td>
<td></td>
<td></td>
<td>Sawteeth on upper (tectonically higher) plate.</td>
</tr>
<tr>
<td>2.4.2</td>
<td>Thrust fault, 1st generation—Approximately located</td>
<td></td>
<td></td>
<td>Sawteeth indicate general character of fault; they are not placed at specific locality where an observation was made. Do not vary size or spacing of sawteeth to indicate different types or generations of faulting (see below).</td>
</tr>
<tr>
<td>2.4.3</td>
<td>Thrust fault, 1st generation—Approximately located, queried</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>2.4.4</td>
<td>Thrust fault, 1st generation—Inferred</td>
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<tr>
<td>2.4.5</td>
<td>Thrust fault, 1st generation—Inferred, queried</td>
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<tr>
<td>2.4.6</td>
<td>Thrust fault, 1st generation—Concealed</td>
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<tr>
<td>2.4.7</td>
<td>Thrust fault, 1st generation—Concealed, queried</td>
<td></td>
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</tr>
<tr>
<td>2.4.8</td>
<td>Thrust fault, 2nd generation—Certain</td>
<td></td>
<td></td>
<td>Sawteeth on upper (tectonically higher) plate. Use to indicate another type or generation of thrust fault when more than one is shown on map.</td>
</tr>
<tr>
<td>2.4.9</td>
<td>Thrust fault, 2nd generation—Approximately located</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.4.10</td>
<td>Thrust fault, 2nd generation—Approximately located, queried</td>
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<tr>
<td>2.4.11</td>
<td>Thrust fault, 2nd generation—Inferred</td>
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<tr>
<td>2.4.12</td>
<td>Thrust fault, 2nd generation—Inferred, queried</td>
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<tr>
<td>2.4.13</td>
<td>Thrust fault, 2nd generation—Concealed</td>
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<tr>
<td>2.4.14</td>
<td>Thrust fault, 2nd generation—Concealed, queried</td>
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</tr>
<tr>
<td>2.4.15</td>
<td>Thrust fault, 3rd generation—Certain</td>
<td></td>
<td></td>
<td>Use to indicate a third type or generation of thrust fault when more than two are shown on map.</td>
</tr>
<tr>
<td>2.4.16</td>
<td>Thrust fault, 3rd generation—Approximately located</td>
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<tr>
<td>2.4.17</td>
<td>Thrust fault, 3rd generation—Approximately located, queried</td>
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<tr>
<td>2.4.18</td>
<td>Thrust fault, 3rd generation—Inferred</td>
<td></td>
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</tr>
<tr>
<td>2.4.19</td>
<td>Thrust fault, 3rd generation—Inferred, queried</td>
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<tr>
<td>2.4.20</td>
<td>Thrust fault, 3rd generation—Concealed</td>
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<tr>
<td>2.4.21</td>
<td>Thrust fault, 3rd generation—Concealed, queried</td>
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<th>Notes on Usage</th>
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</thead>
<tbody>
<tr>
<td>2.5.1</td>
<td>Overturned thrust fault, 1st generation—Certain</td>
<td><img src="image" alt="Symbol" /></td>
<td>-1.75 mm 60° sawtooth 1.5 mm</td>
<td>Bars on upper (tectonically higher) plate; sawteeth in direction of dip.</td>
</tr>
<tr>
<td>2.5.2</td>
<td>Overturned thrust fault, 1st generation—Approximately located</td>
<td><img src="image" alt="Symbol" /></td>
<td>-1.0 mm</td>
<td>Bars and sawteeth indicate general character of fault; they are not placed at specific locality where an observation was made. Do not vary size or spacing of bars and sawteeth to indicate different types or generations of faulting (see below). Strike-slip arrows may be combined with bars and sawteeth to show oblique offset. In cross section, use paired arrows (used for strike-slip faults in map view) to show thrust offset.</td>
</tr>
<tr>
<td>2.5.3</td>
<td>Overturned thrust fault, 1st generation—Approximately located, queried</td>
<td><img src="image" alt="Symbol" /></td>
<td>-1.0 mm</td>
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</tr>
<tr>
<td>2.5.4</td>
<td>Overturned thrust fault, 1st generation—Inferred</td>
<td><img src="image" alt="Symbol" /></td>
<td>-1.0 mm</td>
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<tr>
<td>2.5.5</td>
<td>Overturned thrust fault, 1st generation—Inferred, queried</td>
<td><img src="image" alt="Symbol" /></td>
<td>-1.0 mm</td>
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</tr>
<tr>
<td>2.5.6</td>
<td>Overturned thrust fault, 1st generation—Concealed</td>
<td><img src="image" alt="Symbol" /></td>
<td>-1.0 mm</td>
<td>Bars on upper (tectonically higher) plate; sawteeth in direction of dip. Use to indicate another type or generation of overturned thrust fault when more than one is shown on map.</td>
</tr>
<tr>
<td>2.5.7</td>
<td>Overturned thrust fault, 1st generation—Concealed, queried</td>
<td><img src="image" alt="Symbol" /></td>
<td>-1.0 mm</td>
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<tr>
<td>2.5.8</td>
<td>Overturned thrust fault, 2nd generation—Certain</td>
<td><img src="image" alt="Symbol" /></td>
<td>-1.75 mm 60° sawtooth 1.5 mm</td>
<td>Bars on upper (tectonically higher) plate; sawteeth in direction of dip. Use to indicate a third type or generation of overturned thrust fault when more than two are shown on map.</td>
</tr>
<tr>
<td>2.5.9</td>
<td>Overturned thrust fault, 2nd generation—Approximately located</td>
<td><img src="image" alt="Symbol" /></td>
<td>-1.5 mm 30° sawtooth .2 mm</td>
<td></td>
</tr>
<tr>
<td>2.5.10</td>
<td>Overturned thrust fault, 2nd generation—Approximately located, queried</td>
<td><img src="image" alt="Symbol" /></td>
<td>-1.0 mm</td>
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<tr>
<td>2.5.11</td>
<td>Overturned thrust fault, 2nd generation—Inferred</td>
<td><img src="image" alt="Symbol" /></td>
<td>-1.5 mm 30° sawtooth .2 mm</td>
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<tr>
<td>2.5.12</td>
<td>Overturned thrust fault, 2nd generation—Inferred, queried</td>
<td><img src="image" alt="Symbol" /></td>
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<tr>
<td>2.5.13</td>
<td>Overturned thrust fault, 2nd generation—Concealed</td>
<td><img src="image" alt="Symbol" /></td>
<td>-1.5 mm 30° sawtooth .2 mm</td>
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<td>2.5.14</td>
<td>Overturned thrust fault, 2nd generation—Concealed, queried</td>
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<tr>
<td>2.5.15</td>
<td>Overturned thrust fault, 3rd generation—Certain</td>
<td><img src="image" alt="Symbol" /></td>
<td>-1.75 mm 60° sawtooth 1.5 mm</td>
<td>Bars on upper (tectonically higher) plate; sawteeth in direction of dip. Use to indicate a third type or generation of overturned thrust fault when more than two are shown on map.</td>
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<tr>
<td>2.5.16</td>
<td>Overturned thrust fault, 3rd generation—Approximately located</td>
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<td>2.5.17</td>
<td>Overturned thrust fault, 3rd generation—Approximately located, queried</td>
<td><img src="image" alt="Symbol" /></td>
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<td>2.5.18</td>
<td>Overturned thrust fault, 3rd generation—Inferred</td>
<td><img src="image" alt="Symbol" /></td>
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<td>2.5.19</td>
<td>Overturned thrust fault, 3rd generation—Inferred, queried</td>
<td><img src="image" alt="Symbol" /></td>
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<tr>
<td>2.5.20</td>
<td>Overturned thrust fault, 3rd generation—Concealed</td>
<td><img src="image" alt="Symbol" /></td>
<td>-1.0 mm</td>
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</tr>
<tr>
<td>2.5.21</td>
<td>Overturned thrust fault, 3rd generation—Concealed, queried</td>
<td><img src="image" alt="Symbol" /></td>
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### 2—FAULTS (continued)

<table>
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<th>NOTES ON USAGE</th>
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<tbody>
<tr>
<td>2.6.1</td>
<td>Detachment fault, type 1, 1st generation—Certain</td>
<td></td>
<td>lineweight .375 mm .625 mm radius half-circle spacing 15.25 mm</td>
<td>Half-circles on upper (tectonically higher) plate.</td>
</tr>
<tr>
<td>2.6.2</td>
<td>Detachment fault, type 1, 1st generation—Approximately located</td>
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</tr>
<tr>
<td>2.6.3</td>
<td>Detachment fault, type 1, 1st generation—Approximately located, queried</td>
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<tr>
<td>2.6.4</td>
<td>Detachment fault, type 1, 1st generation—Inferred</td>
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<td>2.6.5</td>
<td>Detachment fault, type 1, 1st generation—Inferred, queried</td>
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<td>2.6.6</td>
<td>Detachment fault, type 1, 1st generation—Concealed</td>
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<td>2.6.7</td>
<td>Detachment fault, type 1, 1st generation—Concealed, queried</td>
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<td>2.6.8</td>
<td>Detachment fault, type 1, 2nd generation—Certain</td>
<td></td>
<td>lineweight .375 mm .625 mm radius half-circle lineweight .2 mm; spacing 15.25 mm</td>
<td>Half-circles on upper (tectonically higher) plate. Use to indicate another type or generation of detachment fault when more than one is shown on map.</td>
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<td>2.6.9</td>
<td>Detachment fault, type 1, 2nd generation—Approximately located</td>
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<td>Detachment fault, type 1, 2nd generation—Inferred</td>
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<td>2.6.12</td>
<td>Detachment fault, type 1, 2nd generation—Inferred, queried</td>
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<td>Detachment fault, type 1, 2nd generation—Concealed</td>
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<td>2.6.14</td>
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<td>2.6.15</td>
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<td>lineweight .375 mm .625 mm radius half-circle lineweight .2 mm; spacing 15.25 mm</td>
<td>Half-circles on upper (tectonically higher) plate. Use to indicate a third type or generation of detachment fault when more than two are shown on map.</td>
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<td>2.6.17</td>
<td>Detachment fault, type 1, 3rd generation—Approximately located, queried</td>
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<td>2.6.18</td>
<td>Detachment fault, type 1, 3rd generation—Inferred</td>
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<td>2.6.19</td>
<td>Detachment fault, type 1, 3rd generation—Inferred, queried</td>
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<td>2.6.20</td>
<td>Detachment fault, type 1, 3rd generation—Concealed</td>
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<td>2.6.21</td>
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### 2—FAULTS (continued)

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<tr>
<th>REF NO</th>
<th>DESCRIPTION</th>
<th>SYMBOL</th>
<th>CARTOGRAPHIC SPECIFICATIONS</th>
<th>NOTES ON USAGE</th>
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<tr>
<td>2.6.22</td>
<td>Detachment fault, type 2, 1st generation—Certain</td>
<td><img src="image1" alt="Symbol" /></td>
<td>linewidth .375 mm</td>
<td>1.25 mm</td>
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<td></td>
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<td>hachure linewidth  .25 mm; height 1.0 mm; spacing between hachure pairs 14.0 mm</td>
<td>Hachures indicate general character of fault; they are not placed at specific locality where an observation was made. Do not vary size or spacing of hachures to indicate different types or generations of faulting (see below).</td>
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<tr>
<td>2.6.23</td>
<td>Detachment fault, type 2, 1st generation—Approximately located</td>
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<td>2.6.29</td>
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<td>box linewidth .25 mm; height 1.0 mm; spacing between boxes 14.0 mm</td>
<td>Boxes on upper (tectonically higher) plate. Use to indicate another type or generation of detachment fault when more than one is shown on map.</td>
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<td>2.6.30</td>
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<td><img src="image9" alt="Symbol" /></td>
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<td>box linewidth .25 mm; height 1.0 mm; spacing between boxes 14.0 mm</td>
<td>Boxes on upper (tectonically higher) plate. Use to indicate a third type or generation of detachment fault when more than two are shown on map.</td>
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<td>2.6.38</td>
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