



National Mapping Program Technical Instructions

Part 6

Publication Symbols

Standards for
1:24,000- and 1:25,000-Scale
Quadrangle Maps

Standards for 1:24,000- and 1:25,000-Scale Quadrangle Maps
 Part 6: Publication Symbols

CONTENTS

	Page
6. Publication Symbols.....	6.1
Black Plate	2
Roads-Highways.....	2
Railroads	2
U. S. Standard Gauge.....	2
Narrow Gauge	2
Miscellaneous.....	3
Bridges-Viaducts-Tunnels-Crossings	3
Dams-Piers-Breakwaters-Etc.....	3
Buildings	4
Miscellaneous Structures	4
Mine Symbols	4
Other Culture Symbols	4
Boundaries	5
Miscellaneous Boundary Data	5
Control Data-Monuments	5
Foreshore-Offshore Features	6
Miscellaneous	6
Brown Plate	7
Contours	7
Miscellaneous	7
Blue Plate	8
Streams	8
Lakes-Ponds	8
Canals-Aqueducts.....	8
Miscellaneous	8
Red Plate	10
United States Land Surveys	10
Other Land Surveys	10
Road Data	10
Miscellaneous	10
Green Plate	11
Blue Tint Plate	11
Standard Patterns and Fills	12
Index.....	13

Standards for 1:24,000- and 1:25,000-Scale Quadrangle Maps
Part 6: Publication Symbols

SUMMARY OF CHANGES

Change Notice 4/03

A complete revision of the Part 6 symbol book is prepared. The blank pages near the beginning of the standard are eliminated and the pages are renumbered. Several listings in the index are added, modified, or put into alphabetical order, and the way multiple listings are displayed is changed to avoid confusion. The titles of symbols 207, 221, 322, 428, 430, 435, and 527 are modified, the examples of symbols 333, 519, and 527 are altered, and the descriptions of symbols 207, 239, 241, 242, 246, 251, 314, 315, 332, 435, and 527 are changed. USGS 1, 3, 4, 9, 9A, 10, 11, 13A-1B to 1P, 14A, 14B, 24, 31, 32, 34 thru 34-4, and 35 are eliminated from the list of Standard Patterns and Fills because they are no longer in use.

Change Notice 7/01

An electronic complete revision of the Part 6 symbol book supersedes the hand-annotated printed version and is posted to the USGS NMP Standards web site. In addition to incorporating the previous pen-and-ink changes, the complete revision eliminates outdated symbols for airport outlines, rice fields, swamp clearing outlines, and black fence lines in land office States and Texas. It also includes changes that reflect the designations of patterns and fills currently in use.

Change Notice 3/94

A change is made to indicate the addition of enhancement tint to Federally administered reservation boundaries.

Change Notice 1/94

Changes are made to be consistent with the decision made during the October 19-21, 1992, Technical Exchange Meeting for the Hydrography and Transportation themes of the Standards for 1:24,000-Scale Digital Line Graph and Quadrangle Maps to include operational status only for the features AIRCRAFT FACILITY, RUNWAY, and ROAD (class 1 and 2 only).

Change Notice 10/93

Changes are made to be consistent with STI 93-4-C, which provided new size criteria and symbolization for buildings shown on 1:24,000- and 1:25,000-scale quadrangles.

Change Notice 8/93

The practice of pointing cave and mine shafts in the direction of the tunnel is changed to orient the shaft perpendicular to the contours.

Change Notice 4/93

A change is made to indicate how to show former tidal gaging station sites in Florida.

Change Notice 8/91

Changes are made to be consistent with STI 90-2-C, which redefined the revision categories and processes for the National Mapping Program products.

Change Notice 7/91

The requirement to classify buildings is discontinued and the symbols for large buildings and tanks are changed from being patterned to solid black.

Standards for 1:24,000- and 1:25,000-Scale Quadrangle Maps
Part 6: Publication Symbols

Change Notice 11/84

These specifications were originally issued in 1958 as "Symbols for Standard Topographic Maps Published at the Scale 1:63,360 and Larger to be Scribed at 1:24,000-1:48,000". The information subsequently was incorporated into the Topographic Instructions as Chapter 4A1. It was reissued in December 1981 with minor modifications to bring the symbols into conformance with current practices and with instructions to use the symbol specifications for all 1:24,000-scale standard edition maps prepared in conventional units. The 11/84 Change Notice specifies that the Part 6 symbol specifications are to be used only for photorevision or limited update maps when it is necessary to match the symbols on existing 1:24,000- and 1:25,000-scale quadrangle maps.

Standards for 1:24,000- and 1:25,000-Scale Quadrangle Maps
Part 6: Publication Symbols

LIST OF PAGES

A complete and current copy of Part 6 of the Standards for 1:24,000- and 1:25,000-Scale Quadrangle Maps consists of the pages (and most recent creation and revision dates) listed below.

<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>
6-ii	4/03				
6-iii	4/03				
6-iiii	4/03				
6-iv	4/03				
6-v	4/03				
6-1	4/03				
6-2	4/03				
6-3	4/03				
6-4	4/03				
6-5	4/03				
6-6	4/03				
6-7	4/03				
6-8	4/03				
6-9	4/03				
6-10	4/03				
6-11	4/03				
6-12	4/03				
6-13	4/03				
6-14	4/03				
6-15	4/03				
6-16	4/03				
6-17	4/03				
6-18	4/03				
6-19	4/03				
6-20	4/03				
6-21	4/03				
6-22	4/03				
6-23	4/03				
6-24	4/03				

Standards for 1:24,000- and 1:25,000-Scale Quadrangle Maps
Part 6: Publication Symbols

6. PUBLICATION SYMBOLS

Use these symbol specifications during revision mapping when it is necessary to match the Part 6 symbolization on existing quadrangle maps. See the Standards for Revised Primary Series Quadrangle Maps for more information on when to use Part 6 symbology.

BLACK PLATE

ROADS-HIGHWAYS

- 100 Class 1—Primary highway, hard surface, four or more lanes.....
Overall width to scale with minimum .02". Line weight .003". See symbol 512 for red fill.
- 101 Class 1—Primary highway, hard surface, two or three lanes.....
Overall width to scale with minimum .02". Line weight .003". See symbol 513 for red fill. Label if 3 lanes.
- 102 Class 2—Secondary highway, hard surface, four or more lanes.
Overall width to scale with minimum .02". Line weight .003". See symbol 514 for red fill.
- 103 Class 2—Secondary highway, hard surface, two or three lanes.
Overall width to scale with minimum .02". Line weight .003". See symbol 515 for red fill. Label if 3 lanes.
- 105 Class 3—Lt. duty, hard or impr...
Overall width .02". Line weight .003".
- 106 Class 4—Unimproved dirt.....
Overall width .02". Line weight .003". Dash .05". Space .02".
- 107 Class 5—Trails: important foot, bridle, pack, marked, and named
Line weight .005". Dash .05". Space .02". Label when necessary to clarify. When used primarily for four-wheel-drive vehicles, label, "4WD". Use symbol 517 to mark changes in type of trail.
- 108 Streets in urban areas.....
Overall width to scale with minimum .02". Line weight .003".
- 109 Dual highway, overall width 100' or less.....
Overall width to scale with minimum .037". Line weight .003".
- 110 Dual highway, overall width over 100'.....
Treat each side as individual road. Width of dividing strip (space) to scale.
- 104 Toll road—Tollgate.....
Tick line weight .007". Tick to project .02" beyond road casing. Label.
- 111 Private road.....
Show if 500' or more in length. Classify according to construction. Label only when necessary to clarify as to availability for public use.
- 112 Under construction-Classification known (Class 1 and 2 only)
Overall width to scale with minimum .02". Line weight .003". Dash .10". Space .02". Red fill consistent with road classification. Label UNDER CONSTRUCTION.

- 114 Traffic circle.....
Road width of circle that of widest road entering circle. Show to scale if size exceeds symbol. Minimum space in circle .04".
- 115 Cloverleaf.....
Minimum overall width .10". Show to scale if size exceeds symbol.
- 116 Dead end road.....
Use only when there may be a question as to whether road ends.

RAILROADS

U. S. Standard Gauge

- 117 Single track.....
Line weight .005". Tie weight .003", length .04", spaced .20" center to center.
- 120 Multiple main line track.....
Overall width .017". Line weight .003". Tie length .052", spaced .20" center to center. If more than two tracks label, with double crosstie at point of change. Double crosstie .017" overall width.
- 123 Juxtaposition.....
Alternate ties, spaced .20" center to center. Minimum space between tracks .011". Line weight for single tracks .005", multiple tracks .003".
- 124 Railroad in street.....
Ties spaced .20" center to center. Label if narrow gauge. Tie weight .003".
- 125 Yards.....
Line weight .003". Space between tracks .011". Ties spaced .20" center to center, maximum length to touch 6 tracks.
- 126 Sidings.....
Line weight .003". Scribe to scale with minimum space between tracks .011". Ties spaced .20" center to center, length .04" for single track.

Narrow Gauge

- 127 Single track.....
Line weight .005". Tie weight .003", length .02", spaced .20" center to center.
- 129 Multiple track.....
Line weight .005". Tie weight .003", length .02", spaced .20" center to center of double tie. Double tie .02" overall width.

BLACK PLATE

Miscellaneous

- 131 Carline.....
Line weight .005". Tie weight .003", length .04", spaced .10" center to center. Not shown in urban areas or in streets or roads.
- 133 Dismantled railroad or carline....
Line weight .005". Dash .05". Space .02". Show if landmark feature or used as trail. Label OLD RAILROAD GRADE.
- 134 Turntable.....
Line weight .003". Show to scale. Minimum circle .06" overall. Cross line at 45° angle.
- 135 Roundhouse and turntable.....
Line weight .003". Show to scale. Minimum circle .06" overall. See symbol 165 for building.
- 136 Station.....
.02" x .04". Use symbol when no siding, building, or other identifying feature.

BRIDGES-VIADUCTS-TUNNELS-CROSSINGS

SHOW BRIDGES AND VIADUCTS 240 FEET OR MORE IN LENGTH ALSO LANDMARK BRIDGES AND FOOT BRIDGES REGARDLESS OF LENGTH

- 137 Bridge: road.....
Tick weight .003". Wing-tick length .023". Angle 45°.
- 138 Drawbridge: road.....
Line weight .003". Circle .045" overall.
- 139 Tunnel: road.....
Line weight .003". Dash .04". Space .02". Wing-tick length .023". Angle 45°.
- 140 Footbridge.....
Line weight .005". Wing-tick weight .003", length .023". Angle 45°.
- 141 Bridge: single track railroad.....
Tick weight .003". Cross-tick length .035". Wing-tick length .023". Angle 45°. No cross-ticks on bridges less than .40" in length and none closer than .20" to bridge ticks.
- 142 Bridge: multiple track railroad....
Same as single track except cross-tick length .05".
- 143 Drawbridge: railroad.....
Line weight .003". Circle .045" overall.
- 144 Tunnel: railroad.....
Line weight .003". Overall width .017". Dash .04". Space .02". Cross-tick length .017". Wing-tick length .023". Angle 45°.
- 145 Underpass, overpass.....
- 146 Bridge over stream, road, railroad.....

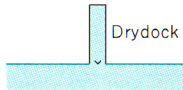
- 147 Ford: road.....
Line weight .003". Dash .04". Space .02". Overall width same as road width. Label.
- 148 Ford: trail.....
Line weight .005". Dash .04". Space .02". Label.
- 149 Ford: road or trail.....
Label placement for narrow stream.
- 150 Ferry.....
Line weight .003". Dash .04". Space .02". Label.
- 151 Ferry.....
Label placement for narrow water area.

DAMS-PIERS-BREAKWATERS ETC.

- 152 Small masonry dam.....
Line weight .012". Line weight .007" for dam less than .20" in length. See symbol 313 for large earth dam.
- 153 Large masonry dam.....
Line weight .012". If width of dam exceeds .02" show dam outline to scale and fill with radiating lines. Dam line weight .007", other lines .003". Drop contours at black dam line.
- 154 Dam with lock.....
Weight of dam line .012", lock .003". Lock .075" x .033". Angles 45°. Point upstream. Show to scale if larger than symbol.
- 155 Dam carrying road.....
Increase weight of road casing by .004". Break tint.
- 156 Breakwater, jetty, pier, wharf.....
Not exceeding .02" in width. Line weight .007". Tint and shoreline not broken.
- 157 Breakwater, pier, wharf, causeway.....
Exceeding .02" in width. Show to scale. Line weight .003". If it carries road use proper road symbol. Break tint and shoreline.
- 158 Covered pier or wharf.....
Break tint and shoreline.
- 159 Seawall.....
Line weight .007". Break shoreline. Label.
- 160 Canal lock or sluice gate.....
Line weight .007". Tick length .023". Angles 45°. Point upstream. Label.
- 161 Canal lock gate, double line stream.....
Line weight .007". Tick to project .02" beyond canal. Angles 45°. Label.

BLACK PLATE

162 Drydock.....
*Line weight .003". Tick weight .007", length .023".
 Angles 45°. Break shoreline, fill with blue tint. Label.*



181 Ruins.....
*Line weight .003". Dash .04". Space .02". Decrease
 length of dash and space if less than .10" x .10". Use
 solid outline if less than .05" x .05". Label.*



BUILDINGS

163 Small buildings.....
*Show solid 02" x .02". Use for buildings less than .05"
 in longest axis.*



164 Small buildings in congested areas...
Minimum .017" x .017".



165 Large buildings.....
*Show solid to scale. Use for buildings greater than .05"
 in longest axis.*



166 School.....
*.025" x .025". Flagpole length .04", weight .003".
 Flag .02" x .03".*



167 School in congested areas.....
*.02" x .02". Flagpole length .033", weight .003". Flag
 .017" x .025".*



168 Church.....
*.025" x .025". Cross length .04". Cross bar .025",
 .017" from top. Line weight .003".*



169 Church in congested areas.....
*.02" x .02". Cross length .033". Cross bar .02", .017"
 from top. Line weight .003".*



170 Large school or church.....
To scale if larger than .05" in longest axis.



171 School, college, etc.....
*When more than one building, show flag on
 administration building if known, if not known show on
 most prominent building.*



173 School or church placement.....
Flag or cross to clear other culture.



174 Building placement.....
*Center of symbol represents center of feature. If
 adjacent to exaggerated road symbol hold displacement
 to minimum.*



Miscellaneous Structures

177 Snowshed.....
Width same as cross-tie.



178 Sewage disposal or filtration plant....
*Line weight .003". See symbol 700 for blue hatching.
 Label.*



179 Masonry swimming pool,
 reservoir, or fish hatchery.....
*Line weight .003". Blue tint fill for water, omit tint for
 other liquids. See symbol 251 for oil reservoir. Label.*



180 Covered reservoir.....
*Hatch SW-NE with .002" lines spaced .02" center to
 center. Blue tint fill for water, omit tint for other liquids.
 Outline weight .003". Label.*



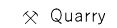
182 Cliff dwelling.....
*Line weight .003". Rectangle .017" x .03". Base .05".
 Label.*



MINE SYMBOLS

SEE SYMBOLS 323, 324, 325, 326, 327, AND 333
 FOR OTHER MINING FEATURES

183 Open pit mine or quarry.....



255 Gravel, sand, clay, or borrow pit.....
*Line weight .003". Length overall .08". Arcs .04".
 Triangles .025" x .025" x .03". Label. If opening is
 larger than symbol and not adequately shown by
 contours add hachure outline on brown, symbol 333.*



184 Mine tunnel entrance or cave.....
*Line weight .003". Arm length .033", shaft .067".
 Angle 90°. Place intersection of arms at portal with
 shaft pointing up slope. Orient shaft perpendicular to
 the contours. Label.*



185 Prospect.....
*Line weight .003". Length .067". Angles 60° and
 120°.*



186 Mine shaft.....
Line weight .003". Square .04" x .04".

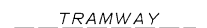


OTHER CULTURE SYMBOLS

187 Power transmission line.....
*Line weight .003". Dash .033". Space .017". Dot
 .017". Place dots at angle points.*



188 Landmark lines: ski lift, incline
 railway, tramway, etc.....
Line weight .005". Dash .10". Space .02". Label.



189 Telephone line.....
Line weight .005". Dash .10". Space .02". Label.



190 Gas or oil pipeline underground...
Line weight .005". Dash .10". Space .02". Label.



191 Gas or oil pipeline aboveground...
Line weight .005". Label ABOVEGROUND PIPELINE.



192 Wall.....
Line weight .007". Wall not exceeding .017". Label.



193 Prominent wall.....
*Show to scale. Show outline if width exceeds .017".
 Line weight .003". Label.*



194 Wells (excluding water).....
Line weight .003". Circle .033" overall. Label.



BLACK PLATE

- 196 Tanks: oil, gas, water, etc..... ● ● ● ● ●
Circle .03" minimum. Label water tank only. Show solid to scale.
- 198 Located or landmark object..... ○ Radio Tower
Line weight .003". Circle .04" overall. Dot .006". Label.
- 199 Windmill..... ✕
Line weight .003". Triangle .05" in height, angles 30°, 75°, 75°. Arms .045", angles 70° and 110°. Center cross on feature. Label generator only.
- 200 Gaging station..... ⚙ Gaging Station (Site) Station Number
Line weight .003". Circle .05" overall. Divide in 4 equal sections. Label. Add (site) and station number for former tidal gaging stations in Florida.
- 201 Pumping station..... ▪ Pumping Station
Show to scale. Minimum size .02" x .02". Use symbol 163 where applicable. Label.

BOUNDARIES-In order of precedence.

- 202 National..... ————
Line weight .016". Dash .25" and .07". Space .033".
- 203 State or territory..... ————
Line weight .012". Dash .25" and .07". Space .033".
- 204 County, parish, municipio, judicial division..... ————
Line weight .01". Dash .25" and .07". Space .033".
- 205 Civil township, town, district, precinct, barrio..... ————
Line weight .007". Dash .17". Space .033".
- 206 Incorporated city, village, town, borough, or hamlet..... ————
Line weight .007". Dash .08" and .04". Space .02".
- 207 National or State reservation, park, or monument; very large city, county, or private park..... ————
Line weight .007". Dash .25". Space .10". Dot .01". See symbol 527 for Federal reservation boundary enhancement.
- 209 Small park, cemetery, etc..... - - - - -
Line weight .003". Dash .04". Space .02".
- 208 Land Grant..... *On red plate*
See symbol 500.
- 210 Township, range, and section..... *On red plate*
See symbols 502 to 511.

Miscellaneous Boundary Data

- 211 Boundary in road..... ————
Boundary line weight .002".

- 212 Approximate boundary... *Use normal symbolization. Label.*
 Indefinite boundary..... *Use normal symbolization at 1/2 specified line weight.*

- 213 Small cemetery..... ☒ Cem
 † Grave
Omit cross if cemetery is .10" square or less. Add label if unnamed. Show cross and omit outline if one or two graves. Line weight .003". Upright length .06". Cross bar .04", .02" from top.

- 214 Cemetery..... ☒
If larger than .10" square add cross and omit label. If named show name and cross. Cross bar length 2/3 of upright, placed 1/3 upright length from top.

- 215 Cemetery..... ☒ Cem
Space permitting omit cross and place name or label inside boundary.

CONTROL DATA-MONUMENTS

- 216 Horizontal control station, third order or better, permanent mark... △
Line weight .003". Sides of triangle .07". Dot .006".
- 217 Horizontal control station, elevation third order or better..... BM △ 467
- 218 Horizontal control station, vertical angle elevation..... △ /324
- 219 Horizontal control station, checked spot elevation..... △ /639
- 220 Vertical control station marked with tablet, elev. third order or better..... BM × 672
Line weight .003". Length .08". Angle 90°.
- 221 Vertical control station, recoverable mark-no tablet, elev. third order or better..... × 1246
- 222 Boundary monument with tablet, with or without geodetic position, elev. third order or better. Grant monument on red (symbol 501).... BM ☐ 1208
Line weight .003". Sides .04". Dot .006".
- 223 Boundary monument without tablet, with or without geodetic position, elev. third order or better. Grant monument on red (symbol 501)..... ☐ 5628
- 224 Spot elevation..... × 1985
Line weight .002". Length .06". Angles 90°.

BLACK PLATE

- 225 Boundary monument with number and elevation..... 67 □ 988
- 226 Reference monument..... □
Line weight .003". Sides .04". Dot .006".
- 227 U.S. mineral or location monument... ▲
Base .06". Height at center .04".
- 229 Horizontal control station coincident with section corner.... ▲
Show triangle. Omit corner. Space .033".
- 230 Bench mark coincident with found section corner..... BM + 628
Show section corner on red plate.
- 231 Other control points. Object may or may not have geodetic position..... ○
Use symbol 198 and label.

FORESHORE-OFFSHORE FEATURES

- 232 Foreshore flat..... Mud
USGS 17. Label sand, gravel, mud, etc. If unknown label Tidal Flat.
- 233 Rock or coral reef..... Coral
Limits as shown. Fill USGS 17. Label.
- 234 Small rock or coral reef..... Coral Reef
- 235 Pile, dolphin, stump, or snag..... ○ Pile
Line weight .003". Circle .033" overall. Label. Use outline and label when too congested. Dots .008". Space .017".
- 236 Rock bare or awash dangerous to navigation..... *
Length .05". Angles 60°. Dots .008". Space .017".
- 237 Rock bare or awash..... *
- 238 Group of rocks bare or awash..... * * * *
Same as 237 with outline dots .008", spaced .017".
- 239 Exposed wreck..... ✂
Line weight .003". Base .12" overall. Circle .025". Angle lines .10" and .037". Cross .05" x .03".
- 240 Exposed wreckage or foul ground..... Wreckage
Outline dots .008". Space .017". Label.

- 241 Masts exposed on sunken wreck..... Mast Exposed
Line weight .003". Length .08". Cross ticks .033" and .05". Space .017". Dots .008". Space .017". Label.
- 242 Sunken wreck..... ++
- 243 Shoal..... Shoal
Where depth curves do not show extent of shoal area use outline. Dots .008". Space .017". Label.
- 244 Danger curve..... Danger Curve
Line weight .002". Dash .015". Space .01". Label.
- 245 Area limits..... CABLE AREA
Line weight .003". Dash .10". Space .02". Label.
- 246 Sunken rock..... +
Line weight .003". Length .05". Angle 90°.
(Soundings and depth curves shown on blue plate)

MISCELLANEOUS

- 250 Oil sump or sludge pit..... Oil Sumps
Line weight .003" for outline if constructed of materials other than earth. If earth use dots .008". Space .017". USGS 17 for fill, or show to match. Label.
- 251 Open oil reservoir..... Oil Reservoir
Outline weight .003". Fill dots .006", spaced .014" center to center. Black tint fill 13%, 120-line at 105°. Label.
- 252 Drive-in theater..... Drive-in Theater. Screen line weight .007".
Outline area with symbol 209. Show structures. Label Drive-in Theater. Screen line weight .007".
- 253 Coke ovens..... Coke Ovens
Overall width .02". Casing line weight .003". Fill dash .03", space .02". Label.
- 254 Boardwalk..... BOARDWALK
Overall width to scale with minimum .02". Line weight .033". Label.
SYMBOL 255 FOLLOWS 183
- 256 Picnic area..... Picnic Area
Line weight .005". Top length .05". Leg length .025". Leg angle 60° from top. Label.
- 257 Campground..... Campground
Line weight .005". Base .04". Overall height .08". Label.
- 258 Corral..... Corral
Line weight .003". Dash .04". Space .02". Label.

BROWN PLATE

CONTOURS

- 300** Index contour.....
Line weight .007".
- 301** Intermediate contour.....
Line weight .003".
- 302** Supplementary contour.....
Line weight .005". 30% biangle screen.
- 303** Approximate index contour.....
Line weight .007". Dash .07". Space .02".
- 304** Approximate intermediate contour.....
Line weight .002". Dash .07". Space .02".
- 305** Feathering-out treatment.....
Drop only intermediate contours. Feather ends. Space remaining contours evenly. Space between contours not less than .005".
- 306** Carrying contour.....
Line weight .007", .002". At cliffs, embankments, and like features where contours merge into one, line weight to agree with contours superimposed.
- 307** Depression contour.....
Tick weight .002". Length .02". Space .12". Spacing to be decreased for small depression.
- 308** Adjacent depression contours.....
Tick weight .002". Length .02". Space .04" on lowest contour. Increase space to .08", .12" on succeeding contours. .12" space on all others.
- 309** Supplementary depression contours..
See symbols 307 and 308 for tick specifications and 302 for line specifications.
- 310** Cut.....
Plot contours in correct position. Space from road, railroad (line), etc. .005".
- 311** Fill: road or railroad.....
Plot contours in correct position. Space from road, railroad (line), etc. .005". Tick weight .002". Length .02". Space between ticks .05".
- 312** Contouring at ditches and canals.....
Contours at low gradient ditches are shown to each side of ditch, turned upstream .08" and dropped. All other canals and ditches are fully contoured within limits of map scale.
- 313** Large earth dam or levee.....
Show with contours when exaggeration is not necessary. Show masonry portion, if any, in black. Drop contours at black.


- 315** Levee with road--levee with railroad.....
Hachures .012" in length, spaced .017" center to center. Line weight .002". Hachures may touch road and ties.
- 316** Sand area, mud.....
USGS 17. Use in areas covering ¼ square mile at 24 000. Label if mud.
- 317** Wash.....
Exceeding 50' at 24 000. USGS 17.
- 320** Glacial moraine.....
USGS 22.
- 321** Dry lake or pond.....
USGS 17 for fill. See symbol 414 for blue outline.
- 322** Sand, etc., in open water area....
USGS 17. Label sand, gravel, mud, etc. Use in areas other than tidal waters. See symbol 232 for foreshore flat.
- 323** Tailings pond.....
USGS 19B. Dashes to run E-W. Use outline when no limiting contour. Dash .07". Space .02". Line weight .003". Label.
- 324** Tailings.....
Maintain pattern as compiled. Label.
- 325** Areal strip mine.....
USGS 21B. Label.
- 326** Linear strip mine.....
USGS 21B. Label.
- 327** Mine dump.....
Line weight .002".
- 328** Intricate surface area.....
USGS 21B on separate plate. Label.
- 329** Gravel beach.....
USGS 22.
- 330** Contouring at levees.....
Drop contours at levee. See symbol 314.
- 331** Shifting sand or dune area.....
USGS 17. Label.
- 332** Spoil bank.....
Same as symbol 314, except show .045" gap every five ticks. Show contour in breaks greater than .10".
- 333** Large open pit mine or quarry—gravel, sand, clay, or borrow pit..
USGS 21B.

MISCELLANEOUS


- 314** Levee.....
Use when levee is too small to be shown with contours. Hachures .02" in length, spaced .017" center to center. Line weight .002".

BLUE PLATE

400 Shoreline.....
Line weight .005".




401 Indefinite shoreline.....
Line weight .005". Dash .07". Space .02".




STREAMS

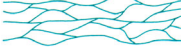
402 Perennial stream.....
Line weight .005". Taper at source. Width not exceeding 50' at 24 000.




403 Perennial stream.....
Line weight .005". Width exceeding 50' at 24 000. Add arrow when direction of flow is not apparent.




404 Braided stream.....
Line weight .005". Maintain pattern as compiled.




405 Intermittent stream.....
Line weight .005". Dash .17". Space between dashes .12". Dots .008". Taper at source. Width not exceeding 50' at 24 000.



406 Intermittent stream.....
Line weight .005". Dash .17". Space between dashes .12". Dots .008". Width exceeding 50' at 24 000.




407 Stream disappearing at a definite point.....
Line weight .005". Length of Y .04". Angle 90°.



408 Unsurveyed perennial stream.....
Line weight .005". Dash .07". Space .02".




409 Wash.....
Line weight .005". Dash .17". Space between dashes .12". Dots .008". Taper at source. Width not exceeding 50' at 24 000. See symbol 317 for wash exceeding these limits.




LAKES-PONDS


410 Perennial lake or pond.....
Line weight .005". Blue tint fill 13%, 120-line at 105°.



411 Perennial salt lake or pond.....
Line weight .005". Blue tint fill. Label.




412 Intermittent lake or pond.....
Line weight .005". Dash .07". Space .02". Dots .006" spaced .014" center to center. NW-SE lines .027" center to center. Use symbol 702 when blue tint.




413 Reservoir natural shoreline.....
Line weight .005". Blue tint fill. Label Reservoir.



414 Dry lake or pond.....
Line weight .005". Dash .07". Space .02". See symbol 321 for brown fill.




415 Indefinite or unsurveyed shoreline....
Line weight .005". Dash .07". Space .02". Blue tint fill.




CANALS-AQUEDUCTS


416 Canal, flume, aqueduct, or perennial ditch.....
Line weight .005". Width not exceeding 50' at 24 000. Label flumes and aqueducts.




417 Intermittent ditch.....
Line weight .005". Dash .17". Space .12". Dots .008".




419 Canal, flume, aqueduct.....
Line weight .005". Width exceeding 50' at 24 000. Blue tint fill. Label flumes and aqueducts.




420 Intermittent canal.....
Line weight .005". Dash .17". Space .12". Dots .008".




422 Navigable canal.....
Symbol 416 or 419. Label NAVIGABLE CANAL when necessary to clarify.




423 Underground flume, penstock, aqueduct, or similar feature.....
Line weight .005". Dash .05". Space .02". Label. **AQUEDUCT**



424 Aqueduct tunnel.....
Line weight .003". Overall width .017". Dash .04". Space .02". Cross-tick length .017". Wing-tick length .023". Angle 45°.




425 Elevated aqueduct, conduit, flume...
Tick weight .003". Length .023". Angle 45°. Label ELEVATED when long.




MISCELLANEOUS


426 Water well.....
Line weight .003". Circle .033". Label. **Well**




427 Spring.....
Line weight .003". Circle .033". Tail length .08". Label. **Spring**




428 Glacier or permanent snowfield...
Outline weight .005". Dash .07". Space .02". Contour line weights .007" and .002".



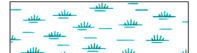
429 Glacier approximate contours.....
Outline weight .005". Dash .07". Space .02". Contour line weights .007" and .002". Length .12" to .20". Space .02".



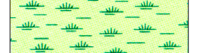
430 Glacier or permanent snowfield...
Use form lines when data for contouring is weak or unavailable. Line weight .002". Length .04" to .20". See 428 for outline.



431 Marsh or swamp.....
USGS 2.



432 Wooded marsh or swamp.....
USGS 2 with green tint overprint. See symbol 604.



BLUE PLATE

433 Submerged marsh or swamp.....

USGS 2 with blue tint overprint. See symbol 704.
Shoreline weight .005".

SYMBOL 434 FOLLOWS 454



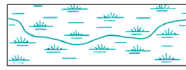
452 Siphon.....

Line weight .005". Dash .05". Space .02". Label Siphon. Omit dashes unless two or more can be shown. Use wing ticks if necessary to clarify.



435 Stream in marsh or swamp.....

Show when channel exists.



453 Glacial crevasses.....

Line weight .002" to .007". Line to show extent and alignment of crevasse. Label.



437 Mangrove.....

USGS 25 with green tint overprint. See symbol 605.

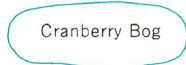


454 Soundings.....

32

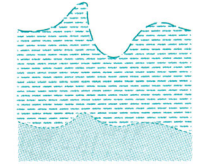
438 Cranberry bog.....

Line weight .005". Label.



434 Approximate mean low water line.....

Line weight .002". Dash .015". Space .01". In flat coastal areas where mean high water line cannot be located, use symbol 401 for approximate limit of flooding, symbol 434 for approximate mean low water line, with symbol 707 fill. Break tint at low water line.



439 Evaporator.....

Line weight .005". Show major separations. Label.



440 Large falls.....

Line weight .003". Length .033". Space .017".



441 Small falls.....

Tick weight .007". Length .05". Label.



442 Large rapids.....

Line weight .003". Length .02" to .04". Space .017" to .033".



443 Small rapids.....

Line weight .005". Length .05". Space .03". Label.



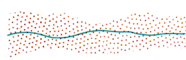
444 Channel in water area.....

Line weight .005". Dash .07". Space .02".



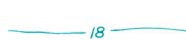
445 Permanent channel in wash.....

Show perennial or intermittent as appropriate. See symbol 317 for wash.



447 Depth curve.....

Line weight .003".



448 Land subject to inundation.....

Show outline if it is mapped or can be determined. Line weight .005". Dash .07". Space .02". See symbol 707 for fill.



449 Water surface elevations.....

Show in black if soundings on same map.

654

450 Salt flat.....

Line weight .005". Dash .07". Space .02". Label.









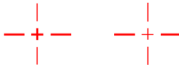

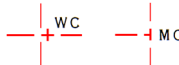
451 Water area.....

Use in open-water areas when no blue tint plate. Dots .006", spaced .014" center to center. Blue tint fill 13%, 120-line at 105°.







RED PLATE




UNITED STATES LAND SURVEYS


- 500 Land grant or mining claim..... 
Line weight .005". Dash .25". Dot .008". Space between dashes .10". Show complete when coincident with single line stream. Show in road only if needed to clarify. If road carries red fill label and omit boundary.
- 501 Land grant monument with or without geodetic position..... 
Line weight .003". Sides .04". Dot .006". When on boundary line orient with line.
- 502 Township or range line..... 
Line weight .01".
- 503 Township or range line: location doubtful..... 
Line weight .01". Dash .10". space .02".
- 504 Section line..... 
Line weight .005".
- 505 Section line: location doubtful... 
Line weight .005". Dash .10. Space .02".
- 506 Section corner: found-indicated.. 
Line weight .01"-.005". Length .06". Space .033". USGS 1.
- 507 Closing corner: found-indicated.. 
Line weight .01"-.005". Length .06". Space .033". USGS 1.
- 523 Witness corner-meander corner... 
Line weight .01". Length .06". Space .033". USGS 1. Label.


OTHER LAND SURVEYS


- 508 Township or range line..... 
Dots .012", spaced .024" center to center. USGS 31.
- 509 Section line..... 
Dots .006", spaced .018" center to center. USGS 31.
- 510 Section corner..... 
See symbol 506, indicated corner.
- 511 Closing corner..... 
See symbol 507, indicated corner.


ROAD DATA

- 512 Class 1 road..... 
Line weight to fit road casing.
- 513 Class 1 road..... 
Line weight to fit road casing.
- 514 Class 2 road..... 
Line weight to fit road casing. Dash .12". Space .12".


- 515 Class 2 road..... 
Line weight to fit road casing. Dash .12". Space .12".


- 517 Change in number of lanes..... 
Line weight .005". Length .07". Tick at right angle to road. Label if more than 2 lanes.


- 518 Direction or destination arrow..... 
USGS 11.

- 519 Route markers..... 
USGS 9, 9A, 10.

MISCELLANEOUS

- 520 Urban area..... 
Make separate plate. Fill 13%, 120-line at 105°.

- 522 Fence line..... 
Line weight .002". Dash .10". Space .02".

- 527 Federal reservation boundary enhancement..... 
Make separate plate. Enhancement width for exterior boundaries of Federal lands .10". Enhancement width for interior Federal lands boundaries .05". Center .05" wide enhancement on boundaries. Red tint 20%, 150-line biangle.

GREEN PLATE

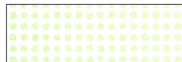
600 Woods, brushwood.....
Green tint 40%, 120-line at 75°.



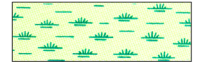
603 Scrub.....
USGS 20B.



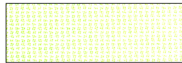
601 Orchard.....
USGS 26B.



604 Wooded marsh or swamp.....
Green tint. See symbol 432 for marsh.



602 Vineyard.....
USGS 7B.



605 Mangrove.....
Green tint. See symbol 437 for mangrove.



Patterns and tints to be broken for clearings along cross-country transmission and telephone lines, pipelines, highways, and railroads whenever clearings are approximately 100' or more in width. Fire breaks, width .02" or to scale.

BLUE TINT PLATE

700 Sewage disposal or filtration plant....
USGS 8B. Hatching NW-SE. See symbol 178 for outline.



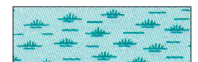
704 Water area.....
Blue tint. See symbol 451 when no blue tint plate.



701 Masonry swimming pool, reservoir, or fish hatchery.....
Blue tint. See symbol 179 for outline.



705 Submerged marsh or swamp.....
Blue tint. See symbol 431 for marsh.



702 Intermittent lake or pond, or area to be submerged.....
Hatching at 45° angle in NW-SE direction. USGS 8B. See symbol 412 for outline, also fill when no blue tint plate.



706 Covered reservoir (water).....
Blue tint. See symbol 180 for outline and hatching.



707 Land subject to inundation.....
USGS 19B. Dashes E-W. See symbol 448 for outline. Use for areas normally dry but subject to occasional or periodic flooding.

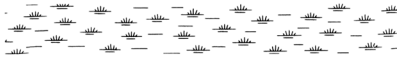


703 Canal or stream.....
See symbol 419 for outline.

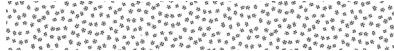


STANDARD PATTERNS AND FILLS

USGS 2 *Marsh*



USGS 20B *Scrub*



USGS 7B *Vineyard*



USGS 21B *Intricate surface area*



USGS 8B *Fill for intermittent pond when no blue tint plate*



USGS 22 *Gravel beach, glacial moraine*



USGS 17 *Sand, dry lake*



USGS 25 *Mangrove*



USGS 17A *Shifting sand*



USGS 26B *Orchard*



USGS 19B *Land subject to inundation, tailings pond*



Specifications for lettering are on the style sheets contained in appendixes 2-B (1:24 000- and 1:25 000-scale) and 2-D (Alaska) of the "Standards for Revised Primary Series Quadrangle Maps."

Sample type styles are in "Specimens of Type Faces for Maps."

Standards for 1:24,000- and 1:25,000-Scale Quadrangle Maps
 Part 6: Publication Symbols

	<u>INDEX</u>			
		<u>Page</u>	<u>Plate</u>	<u>Symbol</u>
-A-				
Adjacent depression contours		7	brown	308
Approximate boundary.....		5	black	212
Approximate contour				
Index		7	brown	303
Intermediate		7	brown	304
Approximate mean low water line		9	blue	434
Aqueduct.....		8	blue	416
		8	blue	419
Elevated.....		8	blue	425
Tunnel		8	blue	424
Underground.....		8	blue	423
Area limits		6	black	245
Area to be submerged		11	blue tint	702
-B-				
Beach, gravel		7	brown	329
Bench mark coincident with found section corner		6	black	230
Boardwalk.....		6	black	254
Borrow pit.....		4	black	255
Large.....		7	brown	333
Boundary				
Approximate.....		5	black	212
Barrio		5	black	205
Cemetery		5	black	209
City park, very large		5	black	207
Civil township.....		5	black	205
County		5	black	204
County park, very large.....		5	black	207
District		5	black	205
Federal reservation boundary enhancement.....		10	red	527
Incorporated borough.....		5	black	206
Incorporated city		5	black	206
Incorporated hamlet.....		5	black	206
Incorporated town		5	black	206
Incorporated village		5	black	206
Indefinite.....		5	black	212
In road.....		5	black	211
Judicial division.....		5	black	204
Municipio		5	black	204
National		5	black	202
National monument		5	black	207
National park		5	black	207
National reservation.....		5	black	207
Parish		5	black	204

Standards for 1:24,000- and 1:25,000-Scale Quadrangle Maps
 Part 6: Publication Symbols

	<u>INDEX</u>			
		<u>Page</u>	<u>Plate</u>	<u>Symbol</u>
Boundary - continued				
Park				
City park, very large.....	5	black	207	
County park, very large	5	black	207	
Private, very large.....	5	black	207	
Small	5	black	209	
State	5	black	207	
Precinct	5	black	205	
State	5	black	203	
State reservation.....	5	black	207	
Territory.....	5	black	203	
Town	5	black	205	
Boundary monument				
With number and elevation	6	black	225	
With tablet, with or without geodetic position, elevation third order or better	5	black	222	
Without tablet, with or without geodetic position elevation, third order or better	5	black	223	
Braided stream	8	blue	404	
Breakwater	3	black	156	
	3	black	157	
Bridge				
Drawbridge, railroad	3	black	143	
Drawbridge, road	3	black	138	
Multiple track railroad	3	black	142	
Over stream, road, railroad	3	black	146	
Road	3	black	137	
Single track railroad.....	3	black	141	
Bridle trail	2	black	107	
Brushwood.....	11	green	600	
Building placement	4	black	174	
Buildings				
Large.....	4	black	165	
Small.....	4	black	163	
In congested areas.....	4	black	164	
-C-				
Campground	6	black	257	
Canal	8	blue	416	
	8	blue	419	
	11	blue tint	703	
Contouring at	7	brown	312	
Intermittent	8	blue	420	
Navigable	8	blue	422	
Carline.....	3	black	131	
Dismantled	3	black	133	

Standards for 1:24,000- and 1:25,000-Scale Quadrangle Maps
 Part 6: Publication Symbols

INDEX

	<u>Page</u>	<u>Plate</u>	<u>Symbol</u>
Carrying contour	7	brown	306
Causeway	3	black	157
Cave	4	black	184
Cemetery	5	black	214
Small	5	black	215
Change in number of lanes	10	red	517
Channel			
In wash, permanent	9	blue	445
In water area	9	blue	444
Church	4	black	168
In congested areas	4	black	169
Large	4	black	170
Placement	4	black	173
Claypit	4	black	255
Large	7	brown	333
Cliff dwelling	4	black	182
Closing corner	10	red	511
Found	10	red	507
Indicated	10	red	507
Cloverleaf	2	black	115
Coke ovens	6	black	253
College	4	black	171
Conduit, elevated	8	blue	425
Contour			
Approximate			
Index	7	brown	303
Intermediate	7	brown	304
Carrying	7	brown	306
Depression	7	brown	307
Adjacent	7	brown	308
Supplementary	7	brown	309
Feathering out treatment	7	brown	305
Index	7	brown	300
Intermediate	7	brown	301
Supplementary	7	brown	302
Contouring			
At ditches and canals	7	brown	312
At levees	7	brown	330
Control points, objects that may or may not have geodetic position	6	black	231
Coral reef	6	black	233
Small	6	black	234
Cranberry bog	9	blue	438
Crevasses, glacial	9	blue	453
Cut	7	brown	310

Standards for 1:24,000- and 1:25,000-Scale Quadrangle Maps
 Part 6: Publication Symbols

	<u>INDEX</u>			
		<u>Page</u>	<u>Plate</u>	<u>Symbol</u>
-D-				
Dam				
Carrying road.....		3	black	155
Large earth.....		7	brown	313
Large masonry.....		3	black	153
Small masonry.....		3	black	152
With lock.....		3	black	154
Danger curve.....		6	black	244
Dead end road.....		2	black	116
Depth curve.....		9	blue	447
Depression contour.....		7	brown	307
Adjacent.....		7	brown	308
Supplementary.....		7	brown	309
Destination arrow.....		10	red	518
Direction arrow.....		10	red	518
Disappearing stream at a definite point.....		8	blue	407
Ditch				
Intermittent.....		8	blue	417
Perennial.....		8	blue	416
Ditches and canals, contouring at.....		7	brown	312
Dolphin.....		6	black	235
Drawbridge				
Railroad.....		3	black	143
Road.....		3	black	138
Drive-in theater.....		6	black	252
Dry lake or pond.....		7	brown	321
		8	blue	414
Drydock.....		4	black	162
Dual highway				
Overall width 100' or less.....		2	black	109
Overall width over 100'.....		2	black	110
Dune area.....		7	brown	331
-E-				
Elevations, water surface.....		9	blue	449
Evaporator.....		9	blue	439
Exposed wreck.....		6	black	239
Exposed wreckage or foul ground.....		6	black	240
-F-				
Falls				
Large.....		9	blue	440
Small.....		9	blue	441
Feathering-out treatment.....		7	brown	305

Standards for 1:24,000- and 1:25,000-Scale Quadrangle Maps
 Part 6: Publication Symbols

INDEX

	<u>Page</u>	<u>Plate</u>	<u>Symbol</u>
Federal reservation boundary enhancement tint	10	red	527
Fence line	10	red	522
Ferry	3	black	150
	3	black	151
Fill, road or railroad	7	brown	311
Filtration plant	4	black	178
	11	blue tint	700
Fish hatchery.....	4	black	179
	11	blue tint	701
Flat, foreshore	6	black	232
Flume.....	8	blue	416
	8	blue	419
Elevated.....	8	blue	425
Underground.....	8	blue	423
Footbridge	3	black	140
Foot trail.....	2	black	107
Ford			
Road	3	black	147
	3	black	149
Trail	3	black	148
	3	black	149
Foreshore flat.....	6	black	232
Foul ground.....	6	black	240
 -G-			
Gaging station	5	black	200
Gas pipeline			
Aboveground.....	4	black	191
Underground.....	4	black	190
Gas tank.....	5	black	196
Glacial crevasses	9	blue	453
Glacial moraine	7	brown	320
Glacier.....	8	blue	428
	8	blue	430
Gravel beach	7	brown	329
Gravel pit.....	4	black	255
Large.....	7	brown	333
 -H-			
Horizontal control station			
Checked spot elevation	5	black	219
Coincident with section corner	6	black	229
Elevation third order or better.....	5	black	217
Third order or better, permanent mark.....	5	black	216
Vertical angle elevation	5	black	218

Standards for 1:24,000- and 1:25,000-Scale Quadrangle Maps
 Part 6: Publication Symbols

	<u>INDEX</u>			
		<u>Page</u>	<u>Plate</u>	<u>Symbol</u>
-I-				
Indefinite boundary	5	black	212	
Indefinite or unsurveyed shoreline	8	blue	415	
Index contour	7	brown	300	
Approximate.....	7	brown	303	
Intermediate contour	7	brown	301	
Approximate.....	7	brown	304	
Intermittent				
Canal.....	8	blue	420	
Ditch	8	blue	417	
Lake or pond	8	blue	412	
Stream	11	blue tint	702	
Stream	8	blue	405	
Stream	8	blue	406	
Intricate surface area.....	7	brown	328	
Inundation, land subject to	9	blue	448	
Inundation, land subject to	11	blue tint	707	
-J-				
Jetty	3	black	156	
-K-				
-L-				
Lake				
Dry.....	7	brown	321	
Dry.....	8	blue	414	
Intermittent	8	blue	412	
Intermittent	11	blue tint	702	
Perennial	8	blue	410	
Land grant	10	red	500	
Land grant monument with or without geodetic position.....	10	red	501	
Land subject to inundation	9	blue	448	
Landmark object	5	black	198	
Lanes, change in number of.....	10	red	517	
Levee	7	brown	314	
Contouring at levees.....	7	brown	330	
Large earth.....	7	brown	313	
With road.....	7	brown	315	
With railroad.....	7	brown	315	
Located object.....	5	black	198	
Lock				
Canal.....	3	black	160	
Double-line stream.....	3	black	161	

Standards for 1:24,000- and 1:25,000-Scale Quadrangle Maps
 Part 6: Publication Symbols

INDEX

	<u>Page</u>	<u>Plate</u>	<u>Symbol</u>
-M-			
Mangrove	9	blue	437
	11	green	605
Marsh.....	8	blue	431
Submerged.....	9	blue	433
	11	blue tint	705
Wooded.....	8	blue	432
	11	green	604
Masts exposed on sunken wreck.....	6	black	241
Meander corner	10	red	523
Mine			
Areal strip	7	brown	325
Linear strip	7	brown	326
Open pit.....	4	black	183
Mine dump.....	7	brown	327
Mine shaft	4	black	186
Mine tunnel entrance.....	4	black	184
Mining claim.....	10	red	500
Moraine, glacial	7	brown	320
Mud	7	brown	316
-N-			
Navigable canal	8	blue	422
-O-			
Oil pipeline			
Aboveground.....	4	black	191
Underground.....	4	black	190
Oil reservoir, open.....	6	black	251
Oil sump.....	6	black	250
Oil tank	5	black	196
Open pit mine.....	4	black	183
Large.....	7	brown	333
Orchard	11	green	601
Overpass	3	black	145
-P-			
Pack trail	2	black	107
Penstock, underground	8	blue	423
Perennial			
Ditch	8	blue	416
Lake or pond	8	blue	410
Salt lake or pond.....	8	blue	411
Stream	8	blue	402
	8	blue	403
Unsurveyed	8	blue	408

Standards for 1:24,000- and 1:25,000-Scale Quadrangle Maps
 Part 6: Publication Symbols

INDEX

	<u>Page</u>	<u>Plate</u>	<u>Symbol</u>
Permanent snowfield	8	blue	428
	8	blue	430
Picnic area	6	black	256
Pier	3	black	156
	3	black	157
Covered	3	black	158
Pile	6	black	235
Pipeline			
Gas or oil, aboveground	4	black	191
Gas or oil, underground	4	black	190
Pond			
Dry	8	blue	414
	7	brown	321
Intermittent	8	blue	412
	11	blue tint	702
Perennial	8	blue	410
Power transmission line	4	black	187
Private road	2	black	111
Prospect	4	black	185
Pumping station	5	black	201
 -Q-			
Quarry	4	black	183
Large	7	brown	333
 -R-			
Railroad			
Bridge			
Drawbridge	3	black	143
Multiple track	3	black	142
Single track	3	black	141
Dismantled	3	black	133
In street	5	black	124
Narrow gauge			
Multiple track	2	black	129
Single track	2	black	127
On levee	7	brown	315
Tunnel	3	black	144
U.S. standard gauge			
Juxtaposition	2	black	123
Multiple main line track	2	black	120
Sidings	2	black	126
Single track	2	black	117
Railroad station	3	black	136
Railroad yards	2	black	125
Railway, incline	4	black	188

Standards for 1:24,000- and 1:25,000-Scale Quadrangle Maps
 Part 6: Publication Symbols

INDEX

	<u>Page</u>	<u>Plate</u>	<u>Symbol</u>
Range line	10	red	502
	10	red	508
Location doubtful	10	red	503
Rapids			
Large	9	blue	442
Small	9	blue	443
Reef			
Rock or coral	6	black	233
Small, rock or coral	6	black	234
Reference monument.....	6	black	226
Reservoir	4	black	179
	11	blue tint	701
Covered	4	black	180
Water	11	blue tint	706
Natural shoreline	8	blue	413
Road			
Bridge.....	3	black	137
Drawbridge.....	3	black	138
Change in number of lanes	10	red	517
Class 1	2	black	100
	2	black	101
Class 2	2	black	102
	2	black	103
Class 3	2	black	105
Class 4	2	black	106
Class 5	2	black	107
Dead end	2	black	116
Dual highway			
Overall width 100' or less.....	2	black	109
Overall width over 100'	2	black	110
Fill			
Class 1	10	red	512
	10	red	513
Class 2	10	red	514
	10	red	515
On levee	7	brown	315
Private	2	black	111
Streets in urban areas	2	black	108
Toll	2	black	104
Tunnel	3	black	139
Under construction, classification known	2	black	112
Rock	6	black	233
Bare or awash.....	6	black	237
Dangerous to navigation.....	6	black	236
Sunken	6	black	246
Rocks, group of, bare or awash	6	black	238

Standards for 1:24,000- and 1:25,000-Scale Quadrangle Maps
 Part 6: Publication Symbols

INDEX

	<u>Page</u>	<u>Plate</u>	<u>Symbol</u>
Roundhouse and turntable, railroad.....	3	black	135
Route markers	10	red	519
Ruins.....	4	black	181
-S-			
Salt flat	9	blue	450
Sand area	7	brown	316
In open water area	7	brown	322
Sandpit.....	4	black	255
Large.....	7	brown	333
Sand, shifting, area	7	brown	331
School.....	4	black	166
In congested areas	4	black	167
Large.....	4	black	170
Placement	4	black	173
Several buildings	4	black	171
Scrub	11	green	603
Seawall	3	black	159
Section corner	10	red	510
Found.....	10	red	506
Indicated.....	10	red	506
Section line	10	red	504
Location doubtful	10	red	505
Sewage disposal.....	11	blue tint	700
Plant	4	black	178
Shifting sand area	7	brown	331
Shoal	6	black	243
Shoreline	8	blue	400
Indefinite.....	8	blue	401
Or unsurveyed	8	blue	415
Siphon.....	9	blue	452
Ski lift	4	black	188
Sludge pit	6	black	250
Sluice gate.....	3	black	160
Double-line stream.....	3	black	161
Snag	6	black	235
Snowfield, permanent.....	8	blue	428
	8	blue	430
Snowshed.....	4	black	177
Soundings.....	9	blue	454
Spoil bank.....	7	brown	332
Spot elevation	5	black	224
Spring	8	blue	427

Standards for 1:24,000- and 1:25,000-Scale Quadrangle Maps
 Part 6: Publication Symbols

INDEX

	<u>Page</u>	<u>Plate</u>	<u>Symbol</u>
Stream			
Braided	8	blue	404
Disappearing at a definite point	8	blue	407
Double line	11	blue tint	703
In marsh	9	blue	435
In swamp	9	blue	435
Intermittent	8	blue	405
.....	8	blue	406
Perennial	8	blue	402
.....	8	blue	403
Unsurveyed	8	blue	408
Streets in urban areas	2	black	108
Strip mine			
Areal	7	brown	325
Linear	7	brown	326
Stump	6	black	235
Submerged, area to be	11	blue tint	702
Sunken			
Rock	6	black	246
Wreck	6	black	242
Mast exposed	6	black	241
Supplementary contour	7	brown	302
Supplementary depression contours	7	brown	309
Swamp	8	blue	431
Submerged	9	blue	433
.....	11	blue tint	705
Wooded	8	blue	432
.....	11	green	604
Swimming pool, masonry	4	black	179
.....	11	blue tint	701
-T-			
Tailings	7	brown	324
Pond	7	brown	323
Tanks			
Gas	5	black	196
Oil	5	black	196
Water	5	black	196
Telephone line	4	black	189
Toll road	2	black	104
Tollgate	2	black	104
Township line	10	red	502
.....	10	red	508
Location doubtful	10	red	503
Traffic circle	2	black	114
Trails	2	black	107

Standards for 1:24,000- and 1:25,000-Scale Quadrangle Maps
 Part 6: Publication Symbols

INDEX

	<u>Page</u>	<u>Plate</u>	<u>Symbol</u>
Tramway, landmark lines	4	black	188
Transmission line, power.....	4	black	187
Tunnel			
Aqueduct	8	blue	424
Railroad	3	black	144
Road	3	black	139
Turntable	3	black	134
Roundhouse and	3	black	135
-U-			
Underpass.....	3	black	145
Unsurveyed shoreline	8	blue	415
U.S. mineral or location monument.....	6	black	227
Urban area	10	red	520
-V-			
Vertical control station			
Marked with tablet, elevation third order or better	5	black	220
Recoverable mark-no tablet, elevation third order or better.....	5	black	221
Vineyard.....	11	green	602
-W-			
Wall	4	black	192
Prominent	4	black	193
Wash	7	brown	317
	8	blue	409
Water.....	11	blue tint	704
Area	9	blue	451
Surface elevations	9	blue	449
Tank.....	5	black	196
Wells (excluding water).....	4	black	194
Well, water	8	blue	426
Wharf.....	3	black	156
	3	black	157
Covered	3	black	158
Windmill	5	black	199
Witness corner	10	red	523
Woods	11	green	600
Wreck			
Exposed.....	6	black	239
Sunken	6	black	242
Wreckage, exposed	6	black	240

Standards for 1:24,000- and 1:25,000-Scale Quadrangle Maps
Part 6: Publication Symbols

	<u>INDEX</u>	<u>Page</u>	<u>Plate</u>	<u>Symbol</u>
-X-				
-Y-				
-Z-				