



GATE REVIEW CHECKLIST

Project Name _____
Application No. _____
Project ID No. _____

17B.10.102 Gate Permits.

Permits are required for gates across the following: private roads, shared access facilities, easements or tracts that provide vehicular access (excluding access for stormwater facilities, electrical substations and electrical switchyards), and driveways to residential, commercial, or industrial structures.

Gates across private driveways which solely access low intensity agricultural activities such as crops or livestock shall not require a gate permit but shall be subject to the gate design requirements set forth in the "[Manual on Design Guidelines and Specifications for Road and Bridge Construction in Pierce County](#)" (Manual). Intensive agricultural uses such as commercial agricultural sales and service which allow for public access shall be considered commercial activities for the purposes of this Section and shall be subject to the requirement for a gate permit.

Circled items need to be addressed. Checked items are OK

Site Plan

1. ____ Site plan is drawn to a scale of 1" = 10'.
2. ____ North arrow and graphic bar scale are shown.
3. ____ Existing and proposed driveways, roads, sidewalks, shoulders, buffers, medians, islands, buildings, easements, critical areas and 2-foot contours (proposed) are shown and labeled.
4. ____ Right-of-Way, future right-of-way, property lines, easements and street names are shown and labeled.
5. ____ Provide dimensions for gate posts, key pad, turnaround, etc. such that it can be built properly in the field, and can be inspected. Provide dimensions that tie what is to be built to existing features that may exist on the property. Existing road edge, existing structures or existing utilities.
6. ____ Location of emergency vehicle strobe detector, keypad and Knox™ key switch, key box or padlock are shown.
7. ____ Gate swing in both the fully open and closed positions shown.
8. ____ Motorized swing gates pivot/swing in the direction of travel.

Roadway Cross-Section/Gate Elevation

9. ____ Cross sectional view of roadway and gate is shown. Include the width of the paving, curb section, shoulders, buffers and sidewalks as applicable and an elevation (front) view of the entire gate system.
10. ____ A dimension of the maximum height and width of each gate panel and support post is shown.
11. ____ Location of emergency vehicle strobe detector is shown.

Details

12. ____ Details of the gate post, keypad and Knox™ switch pedestals, hinge points and swing direction, track attachments, latches, signs and other accessory appurtenances are shown.

Standard Notes

13. ____ Provide appropriate standard notes. Add note(s) number:

All gates:

1. The property owner is responsible for maintaining the rapid entry devices in an operable condition.
2. Prior to requesting a Final Inspection from the Development Engineering Section the applicant shall submit a copy of the completed Gate Operation Test form and a copy of the electrical permit. The electrical permit shall be finalized and cover both line and low voltage systems.
3. All pivoting gates shall have a minimum of six inches of clearance between the bottom of gate and the traveled surface, through its entire operating arc.

Electrically operated gates:

4. The gate lock shall default to the unlocked position in the event of a loss of electrical power.
5. All gates shall open on activation of the Knox key switch and shall remain open until manually reset.
6. The safety loop detector circuit shall prevent the gates from closing on a vehicle in its path. An exit loop detector circuit or emergency vehicle strobe detector receiver shall automatically open the gate upon emergency vehicle approach to the exit gate from inside the complex.
7. Electrically operated gates require a permit for the installation of line and low voltage devices. Contact the appropriate permitting agency (state or utility company) for required permits. Pierce County does not issue electrical permits.

Emergency vehicle strobe detector equipped gates:

8. All gates shall open on activation of the emergency vehicle strobe detector and remain open for a minimum of thirty minutes and then automatically close.

Structural Details

14. ____ Gates or supports that exceed 6-feet in height require project specific structural calculations, plans and details stamped by a Professional Engineer licensed by the State of Washington.
15. ____ Column and attached members sizes and specification(s) are shown.
16. ____ Footing length, width and depth is shown.
17. ____ Concrete specification is shown.
18. ____ Reinforcing steel design and specification is shown.
19. ____ Anchor bolt design and specification is shown.
20. ____ Plans match structural calculations.

Catalog Cut Sheets

If multiple items are shown on a manufacture's catalog cut sheet, clearly note the model number of the item that you are proposing for this application.

21. ____ Provide manufacturer's catalog cut sheet for the:
22. ____ Gate operator
23. ____ Knox™ key switch, key box, or padlock
24. ____ Emergency vehicle strobe detector.

Keypads and Keypad Islands

25. ____ Keypad is located such that a driver does not have to cross an opposing lane of traffic to operate the keypad.
26. ____ Keypad is not located in the traveled way.
27. ____ Length of island is a maximum of 6 feet.
28. ____ Width of island is 3 feet.
29. ____ Keypad and/or keyswitch/box are setback 1 foot from the face of curb or edge of paving.
30. ____ Maximum height of vegetation is 2 feet above the top of curb.
31. ____ Radius of face of curb is 1.5 feet.

Emergency Vehicle Strobe Detector

- 32. ____ Gates which serve 10 or more dwelling units shall have an emergency vehicle strobe detector or an equivalent and compatible system that is approved by the Pierce County Fire Marshal.
- 33. ____ Emergency vehicle strobe detector shall be mounted 8 feet above the roadway and inside the gated area. Locate detector on the right hand gate post as you are entering the gated area.
- 34. ____ When an emergency vehicle strobe detector is required, an exit loop shall automatically open the exit gate when it detects an existing vehicle.

Exit and Safety Loops

- 35. ____ Mechanized gates shall have safety loops installed in the roadway and a detector circuit in the gate operator to prevent gate closure onto a vehicle in its path.
- 36. ____ Length, width and setback from gate of the exit and safety loops are noted on the site plan.

Setbacks

- 37. ____ Gates shall be set back in accordance with the Gate Design Parameters Table. See Appendix A in the Manual for the table.

Sidewalk and Paved Walkways

- 38. ____ Full width of the sidewalk or paved walkway is maintained around any gate appurtenance.

Clear Width

- 39. ____ Clear width per Table 2 & Figure 4 (Keypad Island) is provided. See the Manual Appendix for Tables and Figures.
- 40. ____ Gate post located behind the back of curb.

Traveled Way

- 41. ____ Gate opens to provide an unobstructed access to all portions of the traveled way.

Turn Around

- 42. ____ Gates shall have a turnaround in accordance with the Gate Design Parameters Table. See Appendix A in the Manual for the table.
- 43. ____ Turn around conforms to Figure 1 (Circular Turnaround) or an equivalent (min. 30' radius). See the Manual Appendix for Tables and Figures.

44. ____ If an equivalent turn around is proposed, site plan shows turning path from the key pad to the exit. Turning radii/path is consistent with AASHTO "P" design vehicle. Design is stamped and signed by a licensed Professional Engineer.

Alleys

45. ____ Gates shall not be allowed on or at the entrances or exits of an alleyway.

General

46. ____ Plans are stamped, signed and dated by structural engineer when gates or supports are more than 6-feet in height.
47. ____ Roadway improvement plans, sections, details, specifications and notes provided. Addresses runoff and erosion/sedimentation control.
48. ____ Provide copy of approved site development plans and permit with resubmittal.