Simplified Intersection Control Evaluation

**[Project Title]**

[State Route], MP [Begin] to MP [End]

[Project Number] or [WIN Number], [PIN Number]

[Month Day, Year]

**WASHINGTON STATE DEPARTMENT OF TRANSPORTATION**

Choose an item.

[City/County] Washington

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| SIGNATURES | | Template  Version 1.0 |
| Engineer of Record | Region Traffic Engineer | |
| *This document has been prepared under my direct supervision in accordance with RCW 18.43 and appropriate WSDOT manuals.*  Name, Title, Company, & Address:  [insert title] |  | |
| State Traffic Design & Operations Manager | | |
| See DM 1300.05(6), “For single lane roundabouts, HQ State Traffic Design and Operations Manager may delegate the approval of the Simplified ICE to the Region Traffic Engineer.”  If signature is not required, state: “For single lane roundabout, authority has been delegated to Region Traffic Engineer” | | |

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| **NOTE TO DESIGNERS**  If a compact roundabout is being proposed, consult with your Region Traffic Office to determine if this is an appropriate solution for your location.  There are tips provided in red italicized text. This text, along with the simplified ICE instructions, is intended to help you fill out this document. Delete the red text [including this note] in the final version of the document. |

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| Related Documents and Technical Reports |
| If applicable, HQ may provide additional safety analysis documentation. Regions can add what they believe is appropriate for the site (such as, Traffic Impact Analyses, local planning comprehensive plans or other documents). Use Chicago Style referencing. |

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| General Project Information | | | | | | | | |
| Route Information | SR | NHS (Y/N) | [Functional Class](https://www.wsdot.wa.gov/data/tools/geoportal/?config=FunctionalClass) | [City](https://wsdot.maps.arcgis.com/home/item.html?id=bb7c67c334be494c88cf00ebb91fe51f) | | [County](https://wsdot.maps.arcgis.com/home/item.html?id=fe229f9df5aa4289b8ccd2a99289951b) | | |
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| **Project Information** | Begin SRMP | End  SRMP | Budget | Sub-Program | Posted Speed | [Freight Class](https://geo.wa.gov/datasets/WSDOT::wsdot-freight-data-freight-and-goods-transportation-system-truck-corridors/explore?location=47.352430%2C-120.578105%2C7.64) | [AADT](https://hqolymcognos02p.wsdot.loc/ibmcognos/bi/?pathRef=.public_folders%2FReports%2FTransportation%2BPlanning%2FTraffic%2BCounts%2FSystem-Wide%2BReports%2FAADT%2BHistory%2BReport&action=run&format=HTML&prompt=false&promptParameters=%5B%7B%22name%22%3A%22Year%22%2C%22value%22%3A%5B%5D%7D%2C%7B%22name%22%3A%22End%20AB%22%2C%22value%22%3A%5B%7B%22display%22%3A%22A%22%2C%22use%22%3A%22A%22%7D%5D%7D%2C%7B%22name%22%3A%22MPType%22%2C%22value%22%3A%5B%7B%22display%22%3A%22SRMP%22%2C%22use%22%3A%22SRMP%22%7D%5D%7D%2C%7B%22name%22%3A%22Leg%22%2C%22value%22%3A%5B%7B%22display%22%3A%22State%20Route%22%2C%22use%22%3A%22State%20Route%22%7D%5D%7D%2C%7B%22name%22%3A%22Begin%20AB%22%2C%22value%22%3A%5B%7B%22display%22%3A%22A%22%2C%22use%22%3A%22A%22%7D%5D%7D%2C%7B%22name%22%3A%22SRID%22%2C%22value%22%3A%5B%7B%22display%22%3A%22%28Use%20only%20SR%20Number%29%22%2C%22use%22%3A%22000%22%7D%5D%7D%5D) (Year) | [Truck %](https://hqolymcognos02p.wsdot.loc/ibmcognos/bi/?pathRef=.public_folders%2FReports%2FTransportation%2BPlanning%2FTraffic%2BCounts%2FSystem-Wide%2BReports%2FAADT%2BHistory%2BReport&action=run&format=HTML&prompt=false&promptParameters=%5B%7B%22name%22%3A%22Year%22%2C%22value%22%3A%5B%5D%7D%2C%7B%22name%22%3A%22End%20AB%22%2C%22value%22%3A%5B%7B%22display%22%3A%22A%22%2C%22use%22%3A%22A%22%7D%5D%7D%2C%7B%22name%22%3A%22MPType%22%2C%22value%22%3A%5B%7B%22display%22%3A%22SRMP%22%2C%22use%22%3A%22SRMP%22%7D%5D%7D%2C%7B%22name%22%3A%22Leg%22%2C%22value%22%3A%5B%7B%22display%22%3A%22State%20Route%22%2C%22use%22%3A%22State%20Route%22%7D%5D%7D%2C%7B%22name%22%3A%22Begin%20AB%22%2C%22value%22%3A%5B%7B%22display%22%3A%22A%22%2C%22use%22%3A%22A%22%7D%5D%7D%2C%7B%22name%22%3A%22SRID%22%2C%22value%22%3A%5B%7B%22display%22%3A%22%28Use%20only%20SR%20Number%29%22%2C%22use%22%3A%22000%22%7D%5D%7D%5D) (Year) |
|  |  |  |  |  |  |  |  |
| Latitude |  | | | | | | | |
| Longitude |  | | | | | | | |
| Brief Project Description | Install a roundabout with Choose an item.1 circulating lane(s) at the intersection of \*\*\* FILL IN \*\*\*. Repeat statement for each intersection if multiple intersections. | | | | | | | |
| Existing Conditions | Describe the existing conditions, such as whether there is an existing intersection, existing intersection control, general land use classification and description (see local zoning maps), etc. | | | | | | | |
| Important Project History or Background | Provide any history that may be relevant to the issue(s) to be discussed:  You are “setting the stage” here for the discussion to follow.  Background is NOT where you get into what the decisions that are documented will be…that comes in later sections.  If safety is affected by the alternatives of this Design Analysis/Decision, describe the existing safety context.  Who is the project sponsor? WSDOT? Local Agency? Developer? Any grant of other funding sources? Any constraints to funding sources? | | | | | | | |
| Future and Related Projects |  | | | | | | | |

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| Section 1) Project Needs |
| Baseline Needs (BN) |
| **BN1 – TITLE** *(ex. Safety, Mobility, Preservation)*  Background: Write a short paragraph providing the background behind why this is a baseline need for the project. Make sure you address what are the contributing factors to this baseline need.  Metric: *What are you going to measure? This needs to be a simple statement or a few words.*  Target: *What is the project’s target for the above metric? Keep this simple.* |
| **BN# – TITLE**  Background: Write a short paragraph providing the background behind why this is a baseline need for the project. Make sure you address what are the contributing factors to this baseline need.  Metric: What are you going to measure? This needs to be a simple statement or a few words.  Target: What is the project’s target for the above metric? Keep this simple. |
| Complete Streets Needs |
| **Does Complete Streets apply to the project?  No  Yes**  Refer to the Complete Streets Project Screening Worksheet. If the result of the worksheet was a complete streets analysis was required, then check Yes and provide highlights of the Project Screening Worksheet in this box. If Complete Streets is not applicable, check “no” and insert a statement as to why. |
| **Follow the process outlined in DM 1310.03(1) to match the intersection design treatments to the desired active transportation elements/approach of the corridor. Describe the roundabout’s active transportation treatments:** |
| Contextual Needs (CN) |
| **CN# – TITLE** … add CN1, CN2, etc. If no contextual needs are identified, insert “N/A” for the TITLE. (ex. Resiliency)  Background: Write a short paragraph providing the background behind why this is a contextual need for the project. Make sure you address what are the contributing factors to this contextual need. If there are no contextual needs identified, state such in this background section and put “N/A” for the metric and target.  Metric: What are you going to measure? This needs to be a simple statement or a few words.  Target:What is the project’s target for the above metric? Keep this simple. |

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| Section 2) Feasibility | |
| Right of Way Impacts | Describe any known or potential right of way issues  Will R/W phase be needed?  Are there tribal properties impacted?  Are there any impacted structures (e.g., buildings, walls, tunnels, bridges)?  Note: Disclose any other information that may impact feasibility. |
| Environmental Impacts | Describe a known or potential environmental consideration that helped inform the decision. This may include:  Are there sensitive habitats that will be impacted?  Is the HEAL Act applicable? If so, how has it informed the decision?  Are there any known hazardous materials or contamination?  Are there any historical sites or structures impacted? |
| Community Engagement & Local Partners | Describe engagement with the community and local partners.  What community engagement has been conducted?  What community needs have been identified? Are there any community or state plans?  How is ongoing engagement outlined in the project community engagement plan?  How have you worked with local agencies? |
| Other Considerations | Describe any other considerations, risks or issues that informed the decision.  Identify any challenging topography (e.g. would the roundabout be on a steep grade or superelevated curve?)  Are there other project challenges such as utilities conflicts, drainage needs, access control needs, etc.  Will stormwater facilities be required?  Ask your ASDE for Design Variances within project limits and note them here if not corrected by the project. |

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| Section 3 - Safety and Operations |
| Safety Analysis |
| The Federal Highway Administration (FHWA) and WSDOT recognize roundabouts as a Proven Safety Countermeasure due to their ability to reduce the likelihood of crashes that result in injury or death by controlling traffic speeds and minimizing conflict points. Roundabouts also enhance pedestrian safety by lowering vehicle speeds, reducing conflict points, and providing shorter pedestrian crossing distances.1, 2, 3  Note: Provide the 5-year crash data as an attachment. This information may influence the geometric design.  *Proven Safety Countermeasures: Roundabouts. Publication FHWA-SA-21-042. FHWA, US Department of Transportation, 2021. Accessed March 12, 2025,* [*https://safety.fhwa.dot.gov/provencountermeasures/roundabouts.cfm*](https://safety.fhwa.dot.gov/provencountermeasures/roundabouts.cfm)*.*  2 National Academies of Sciences, Engineering, and Medicine. 2023. *Guide for Roundabouts*. Washington, DC: The National Academies Press. https://doi.org/10.17226/27069.  3 Roundabout/Pedestrian, Quick Bites, Institute of Transportation Engineers, accessed March 12, 2025. <https://www.ite.org/technical-resources/resources/>. |
| Operations |
| Existing Year: report year considered for existing conditions (e.g., 2025) |
| Opening Year: list year considered for opening (e.g., 2026) |
| Design Year: list year considered for horizon year analysis (e.g., 2035). Include discussion of why the design year was selected and methods to determine design year volumes. |
| Factors influencing traffic volumes: Briefly list factors that may affect traffic volumes such as land use development activity, school, regional sports fields. If other peaks besides evening rush hour is used briefly describe why a different peak is being used to define operations. |

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| Design Year No Build and Build Intersection Operations Analysis Summary | | | | | | | |
| Intersections | Peak Period | No Build | | | Build | | |
| Delay (s) | Queue (ft) | v/c ratio | Delay (s) | Queue (ft) | v/c ratio |
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| See [Traffic Modeling protocols](https://wsdot.wa.gov/sites/default/files/2021-03/TrafficOps-WSDOTSidraPolicyAndSettings.pdf). Attached analysis (SIDRA) output sheets to this ICE.  Round delay to nearest second  Round queue to nearest 5 feet | | | | | | | |

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| Section 4) Attachments |
| * Vicinity Map * Conceptual Roundabout Plan * Supplementary Analysis (as required by Region Traffic Engineer) * Operational analysis output files, including traffic counts, growth rate assumptions, and design year approach volumes * Other |

Legend:

ഠ = Worst

◔ = Worse

◑ = Average

◕ = Better

⬤ = Best

Add or delete columns as necessary