

Snohomish County Public Works

ENVIRONMENTAL CHECKLIST

Project number: RC 1543

Purpose of Checklist:

The State Environmental Policy Act (SEPA), Chapter 43.21C RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decide whether an EIS is required.

SUMMARY

A. BACKGROUND

1. Name of proposed project: **198th Street SE New Alignment**
2. Name of applicant:
**Snohomish County Public Works
Engineering Services Division**
3. Address and phone number of applicant and contact person:
**3000 Rockefeller Avenue, M/S 607
Everett, WA 98201**

**Contact Person: Stephanie Cotton, Senior Environmental Planner
Transportation and Environmental Services Division
(425) 388-3488 ext. 4687 or
stephanie.cotton@snoco.org**
4. Date checklist prepared:
August 9, 2010
5. Agency requesting checklist:
Snohomish County Public Works
6. Proposed timing or schedule (including phasing, if applicable):
This project is currently in the design phase. Funds are not yet available for construction.
7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

No future plans or improvements are currently proposed.

8. List any environmental information you know about that has been prepared, or would be prepared, directly related to this proposal.

Environmental Review Memo, Snohomish County, December 2008

Design Report, Snohomish County, July 2009

Noise Study, Snohomish County, August 2010

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

Snohomish County Planning and Development Services issued a preliminary subdivision approval for the proposed Jewell Assemblage.

10. List any government approvals or permits that would be needed for your proposal, if known.

The following permits and approvals would be required:

Permit/Approval:

Required from:

Grading permit

Snohomish County Planning and Development Services

Critical Area Certification

Snohomish County – Public Works

Drainage Certification

Snohomish County – Public Works

**National Pollutant Discharge
Elimination System (NPDES)
Permit**

Washington State Department of Ecology

11. Location of proposal:

The project site is located in unincorporated Snohomish County at the intersection of 198th Place SE and 35th Avenue SE in Section 21, Township 27N, Range 5E, W.M., just northeast of the City of Bothell, Snohomish County, WA.

12. Give a brief, complete description of your proposal, including the proposed uses and the size of the project and site.

Snohomish County Public Works proposes road improvements at 198th Place SE and 35th Avenue SE and at the intersection of York Road and Jewell Road. The project would construct a new east-west roadway between 35th Avenue SE and Jewell Road. The skewed intersection of York Road and Jewell Road would also be modified. The proposed improvements include:

- **Approximately 1,200 feet of new roadway would be constructed from the intersection of 198th Place SE and 35th Avenue SE eastward to Jewell Road. The new roadway would have two twelve foot lanes. A 5-foot landscape strip and a 5-foot porous concrete sidewalk would be constructed on the north side of the road.**
- **The project would install a new signal at the intersection of 35th Avenue SE and 198th Place SE. The intersection would be widened to accommodate left**

turn lanes and a bike lane. A 5-foot landscape strip, and a sidewalk would also be constructed on each side of 35th Avenue SE, along the length of the improvements.

- A one-lane roundabout would be constructed to connect the new 198th Street SE roadway to Jewell Road, just north of 199th Place SE. Approximately 600 feet of Jewell Road from 199th Street SE, extending north, would be realigned to accommodate the new roundabout.
- A stormwater detention facility would be constructed at the north east corner of the new roundabout. Stormwater would be collected from the paved surfaces by catch basins and conveyed by a pipe network to this new facility to provide flow control and quality treatment.
- Turns would be limited to right turn only at the intersection of Jewell Road and York Road.

Additional right-of-way would be acquired from 10 to 12 parcels in order to construct the proposed improvements. The minimum width of the proposed roadway right-of-way is 60 feet.

Snohomish County Public Works hosted an open house on November 6, 2008, to involve the community in the development of the project. Newsletters were also mailed to area residents in July, September, October, and December 2008, in February 2009, and a postcard in April 2010. The design memorandum was completed in July 2009 with the preferred project alternative as described above. For more information please visit www.snoco.org and search for: "198th Place SE /35th Ave SE".

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (shown in **bold** type): *flat, rolling*, hilly, steep slopes, mountainous, other.

The project site is generally flat and drains into the Little Bear Creek Basin.

b. What is the steepest slope on the site (approximate percent slope)?

The steepest slope on the site is approximately 5 percent.

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.

The soil type that is found within the project area is mapped as Alderwood gravelly sandy loam. The Alderwood soil is moderately deep over a hardpan and is moderately well drained. It formed in glacial till.

Typically, the surface layer is very dark grayish brown gravelly sandy loam about 7 inches thick. The upper part of the subsoil is dark yellowish brown and dark brown very gravelly sandy loam about 23 inches thick. The lower part is olive brown very gravelly sandy loam about 5 inches thick. A weakly cemented hardpan is at a depth of about 35 inches. Depth to the hardpan ranges from 20 to 40 inches. Permeability of the Alderwood soil is moderately rapid above the hardpan and very slow through it. Available water capacity is low. Effective rooting depth is 20 to 40 inches. Runoff is slow, and the hazard of water erosion is slight. A seasonal perched water table is at a depth of 18 to 36 inches from January to March.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

No

e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

The project would require approximately 1,294 cubic yards of gravel borrow, 1,762 cubic yards of porous concrete for sidewalk installation, 2,591 cubic yards of crushed surfacing base course and 682 cubic yards of topsoil for fill material. Snohomish County grading regulations require that fill material would be provided from a County approved source. Engineering certification of construction documents would assure fill is from an approved source. All structural fill would be compacted and placed in accordance with Washington State Department of Transportation (WSDOT) standards.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

Minor amounts of erosion may occur during construction if appropriate erosion control devices are not utilized. Temporary Erosion and Sedimentation Control Best Management Practices (BMPs) would be used for temporary erosion and pollution control. No erosion would result from use of the completed improvements.

g. About what percent of the site would be covered with impervious surfaces after project construction?

The amount of new and replaced impervious surface area created by this project totals approximately 141,990 square feet or 3.26 acres.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

All project activity would be subject to Best Management Practices and would comply with the provisions of all applicable permits. Best Management Practices may include the following:

- **Protective covering would be placed over exposed soil areas to prevent sediments and other contaminants from entering the roadside ditch. Protective covering would be clear plastic sheeting, straw mulch, jute matting, or erosion control blanket per Department of Ecology requirements.**
- **A temporary erosion and sediment control plan would be implemented during construction.**
- **Erosion and sedimentation control measures would be routinely inspected, maintained and repaired. Damaged or inadequate erosion and sedimentation control measures would be corrected quickly.**
- **Any bare soil that may result from project activity would be reseeded with an appropriate erosion control seed mix immediately following construction.**

2. Air

a. What types of emissions to the air would result from the proposal (i.e., dust, automobile odors, and industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

Construction equipment, construction-related activities, and vehicles carrying workers and equipment to and from the site would result in minor, temporary increases in emissions and dust. There would be no increase in emissions once construction is complete.

b. Are there any off site sources of emissions or odor that may affect your proposal? If so, generally describe.

No

c. Proposed measures to reduce or control emissions or other impacts to air, if any.

During construction, equipment emissions would not exceed state and national air quality standards. The project would use only equipment and trucks in optimal operational condition. Dust control measures would be implemented to minimize airborne dust.

3. Water

a. Surface Water

1) Is there any surface water body on or in the immediate vicinity of the site (including year round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

East of Jewell Road, there is a pond that outlets to an unnamed tributary stream of Little Bear Creek. Little Bear Creek is located approximately 1.5 miles downstream of the pond. There are no wetlands in the project vicinity.

2) Would the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe.

No

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

None

4) Would the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

The proposal would not require any surface water withdrawals or diversions.

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

No

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No waste materials would be discharged to surface waters.

b. Groundwater

1) Would ground water be withdrawn, or would water be discharged to groundwater? If so, describe the type of waste and anticipated volume of discharge.

No water would be withdrawn from or discharged to groundwater.

2) Describe waste material that would be discharged into the ground from septic tanks or other sources, if any (for example: domestic sewage; industrial, containing the following chemicals; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

N/A

c. Water Runoff (including storm water)

1) Describe the source of runoff (including stormwater) and method of collection and disposal, if any (include quantities, if known). Where would this water flow? Would this water flow into other waters? If so, describe.

Currently, stormwater runoff from the road flows into the roadside ditches via direct runoff (sheet flow). New road surface runoff would be captured via road side catch basins and storm drainage pipes that would convey roadway runoff to a new stormwater pond that is proposed to be located near the northeast corner of the proposed roundabout. The pond would have a controlled outfall to the existing roadside ditch along the east side of Jewell Road.

The Snohomish County drainage code, 30.63A, requires that this project be subject to the redevelopment requirements for stormwater flow control since the new impervious area is greater than 5,000 square feet.

2) Could waste materials enter ground or surface waters? If so, generally describe.

No

3) Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:

The project would comply with all applicable regulations, and all appropriate measures would be taken to reduce impacts to surface and ground water runoff. Best management practices would be used throughout construction, including working during low or no flow conditions (July-September) and placing protective covering over exposed soil areas.

4. Plants

a. Check types of vegetation found on or in close proximity to the site:

- deciduous trees:
- evergreens:
- shrubs:
- grasses:
- pasture
- wet soil plants:
- water plants: water lily, eelgrass, milfoil, other
- other types of vegetation:

b. What kind and amount of vegetation would be removed or altered?

Clearing and grading associated with the new road alignment would occur within the project limits. Loss of, and disturbance to, vegetation would be minimized to the extent practicable. Removal of existing trees, shrubs, and grass would be limited to the 35th Street SE and 198th Place SE intersection improvement, new 198th Street SE road alignment, and the roundabout intersection connecting to Jewell Road.

c. List threatened or endangered plant species known to be on or near the site.

None is known to be on or adjacent to the project site. If such plant species are found, all project work would comply with the requirements of the Endangered Species Act and other applicable regulations.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation of the site, if any:

Planter strips are proposed to be constructed adjacent to the raised sidewalks and would be planted with appropriate vegetation.

5. Animals

a. Circle any birds and animals which have been observed on or near the site or are known to be on or near the site (shown in *bold* type):

birds: hawks, heron, eagle, songbirds, other: owls, ducks, woodpeckers

mammals: deer, bear, elk, beaver, other: opossum, raccoon, coyote, small rodents,

fish: bass, salmon, trout, herring, shellfish, other:

b. List any threatened or endangered wildlife species known to be on or near the site.

No threatened or endangered species are known to be on or near the site.

c. Is the site part of a migration route? If so, explain.

Yes. The site is within the Pacific Flyway. Migratory waterfowl can be observed in the greater project vicinity.

d. Proposed measures to preserve or enhance wildlife, if any:

Project construction would occur primarily during the summer months when rainfall is minimal. This would minimize erosion and prevent sedimentation of surface waters. Bare soil areas would be revegetated and planted after site grades have been established. Additional timing restrictions could also be applied if it is determined that the project could adversely affect eagles and other bird species in the project area.

6. Energy and Natural Resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) would be used to meet the completed project's energy needs? Describe whether it would be used for heating, manufacturing, etc.

No changes in energy use would result from the completed proposal. No energy is needed to meet the completed project's needs. However, during construction minor amounts of fuel would be used by construction equipment during site grading and paving activity.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

N/A

7. Environmental Health

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste that could occur as a result of this proposal? If so, describe.

No potentially hazardous materials have been identified at or in proximity to the project site. Fuel spills and other construction equipment fluids could potentially occur during construction.

1) Describe special emergency services that might be required.

Emergency response vehicles may be required in the event of a construction accident. The completed project would not require any additional emergency services.

2) Proposed measures to reduce or control environmental health hazards, if any:

Spill control and clean-up material would be staged onsite. The crew leader or other designated person would have a spill control plan and be trained in spill prevention and clean up. All equipment would be well maintained and in good repair to prevent the loss of any petroleum products. Refueling and vehicle maintenance would generally occur off-site.

An Environmental Site Assessment would be prepared prior to the construction to address any potential soil contamination or other hazardous materials on site. If any hazardous materials are discovered during project construction, they would be handled and disposed of according to adopted Washington State and local codes governing their disposal.

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, aircraft, other)?

No noise in the area would affect the proposed roadway project.

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

During construction (short-term) there would be increased noise levels generated by heavy equipment. These noise levels are likely to exceed existing background noise levels associated with surrounding residential properties.

The completed project would increase noise levels along the proposed new 198th Street SE roadway alignment. The increases would affect adjacent residential properties that are located south of the roadway alignment. A noise study was conducted to determine existing and future noise levels. This noise study determined that four adjacent properties along the south side of the proposed project are predicted to have noise impacts in the form of a 10 dBA or more predicted increase in noise levels between modeled 2008 existing conditions and predicted noise levels for the year 2030.

3) Proposed measures to reduce or control noise impacts, if any:

As the design is further refined, measures to reduce or control these noise impacts would be evaluated and complied with pursuant to Chapter 10.01 SCC.

8. Land and Shoreline Use

a. What is the current use of the site and adjacent properties?

The current use of the site is a county road and residential property. Land use in the area is residential within the urban growth area.

b. Has the site been used for agriculture? If so, describe.

No

c. Describe any structures on the site.

There is one existing residential home along the new alignment located on 35th Avenue SE at the intersection with 198th Place SE.

d. Would any structures be demolished? If so, what?

The existing residential home described above would be demolished in order to construct the new 198th Place SE new alignment.

e. What is the current zoning classification of the site?

The zoning at the project site is Residential 9,600 and is within the Bothell urban growth area.

- f. What is the current comprehensive plan designation of the site?
The comprehensive plan designation of the site is Urban Low Density Development.
- g. If applicable, what is the current shoreline master program designation of the site?
N/A
- h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.
Snohomish County designates streams, wetlands, geologically hazardous areas (erosion, landslide, volcanic, seismic and mine hazard areas), and fish and wildlife habitat as critical areas. There are no environmentally sensitive areas within the project site.
- i. Approximately how many people would reside or work in the completed project?
None
- j. Approximately how many people would the completed project displace?
None
- k. Proposed measures to avoid or reduce displacement impacts, if any:
N/A
- l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:
This project is consistent with the Snohomish County Growth Management Act Comprehensive Plan – Transportation Element and policies and is identified in the County’s Capital Improvement Plan for 2006-2011. It was also identified in the Snohomish County Transportation Improvement Plan for 2009-2014.

9. Housing

- a. Approximately how many units would be provided, if any? Indicate whether high, middle or low-income housing.
None
- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.
The one residential home described previously in Section 8 would need to be removed in order for the new roadway to be constructed.

c. Proposed measures to reduce or control housing impacts, if any:

Right-of-way acquisition of private property is necessary to construct the new roadway. A complete and detailed set of relocation and right-of-way plans would be developed. Chapters 8.25 and 8.26 of the Revised Code of Washington and the Washington State Department of Transportation (WSDOT) Right-of-way manual would govern right-of-way acquisition proceedings.

Snohomish County Code 30.66B would require developments to make frontage improvements (SCC 30.66B.410) and dedicate right-of-way to the county for road purposes (SCC 30.66B.510).

Right-of-way purchases would be in accordance with Civil Rights Act Title VI legislation and the federal Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 as amended (42 U.S.C.) These laws: provide payment for reasonable and necessary costs to relocate persons displaced by the project; ensure prompt and fair relocation payments; and require agency review of aggrieved parties. Acquisition includes appraisal, determination of just compensation, presentation of an offer and compensating the individual. Acquisition within the project vicinity would not be initiated until the environmental review process has been completed.

10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

There are no proposed structures associated with this project.

b. What view in the immediate vicinity would be altered or obstructed?

The proposed roadway, traffic signal, and roundabout would permanently change views as a result of construction.

c. Proposed measures to reduce or control aesthetic impacts, if any:

The project would consider measures to reduce aesthetic impacts and would be limited to those that can be implemented within the proposed right of way. They include: signing, lighting, and landscaping. Clearing of existing vegetation within the proposed right of way would be limited to that needed for construction.

11. Light and Glare

a. What type of light or glare would the proposal produce? What time of day would it mainly occur?

A new traffic signal would be installed at the intersection of 35th Avenue SE and 198th Place SE. Street lighting would be installed along the new 198th Street SE roadway and at the roundabout with Jewell Road.

- b. Could light or glare from the finished project be a safety hazard or interfere with views?
The new traffic signal and street lighting would not pose a safety hazard or interfere with views.
- c. What existing off-site sources of light or glare may affect your proposal?
Existing off-site sources of light or glare would not affect the proposal.
- d. Proposed measures to reduce or control light and glare impacts, if any:
None.

12. Recreation

- a. What designated and informal recreational opportunities are in the immediate vicinity?
None
- b. Would the proposed project displace any existing recreational uses? If so, describe.
No
- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:
No impacts to recreation are anticipated as a result of either project construction or completion. No mitigation is proposed.

13. Historic and Cultural Preservation

- a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to this site? If so, generally describe.
This site was screened by Public Works for proximity to known archaeological and cultural sites. There are no known recorded sites located where potential ground disturbance activities are anticipated.
- b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.
None have been identified.
- c. Proposed measure to reduce or control impacts, if any:
Although no known archaeological sites are in close proximity to the project, there is still a possibility that cultural resources could be present. If, during construction, cultural resources are found, a systematic collection of artifacts would be made before proceeding with the work and the Department of Archaeology and Historic Preservation would be contacted. If artifacts are uncovered within the project area, work in that area would be stopped and a professional archaeologist would be brought in to examine them. During construction the contractor would monitor the site for potential cultural materials. If artifacts or human remains are uncovered within the project area, work would stop until a qualified archeologist can make an assessment.

14. Transportation

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.

35th Avenue SE, 198th Place SE, York Road, and Jewell Road.

b. Is the site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

There are no Community Transit routes in the project area. The closest Community Transit routes are located on SR 527, approximately 1.5 miles to the west of the project site.

c. How many parking spaces would the completed project have? How many would the project eliminate?

None and none

d. Would the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private)

The project proposes to construct a new public road as described in Section A.

e. Would the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No

f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

The proposed road improvements would not generate any new vehicular trips. However, the proposed project would provide a new connection between 35th Avenue and Jewell Road that would redistribute traffic and change traffic patterns due to the new alignment. Existing traffic would be rerouted from left turns onto York and Jewell Roads to the new 198th Street SE roadway.

It is expected that there would be approximately 5,200 ADT on the new 198th Street SE.

The preliminary subdivision, as identified in section A #9, would generate approximately 2,220 ADT if further approved and constructed.

g. Proposed measures to reduce or control transportation impacts, if any:

The project would be designed to meet current adopted Snohomish County roadway design standards.

15. Public Services

a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.

No additional or increased need for public services would result from this project. It is expected that the completed project would improve traffic flow in the area.

b. Proposed measures to reduce or control direct impacts on public services, if any.

Traffic control during construction would be planned, sequenced, and administered to allow continuation of basic services during construction activities in the public right-of-way. The existing roadways in the project area would remain open to traffic during construction, although traffic may potentially be subject to one-lane closures during active construction to avoid conflicts with construction that could pose a safety hazard. There could be potential short-term closures of the roadway.

16. Utilities

a. Utilities currently available at the site:

Electricity, natural gas, water, refuse service, telephone, sanitary sewer, and cable.

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

The project proposes no new utilities. Existing overhead and underground utilities would need to be adjusted or relocated to accommodate the project design. Several aerial and underground utilities have been identified in the project area. Detailed information would be requested from each utility as the design is finalized. The design would be coordinated to minimize construction related service disruptions and utility relocations.

C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature:  Date: 8/9/10
Stephanie Cotton, Senior Environmental Planner