



US Army Corps
of Engineers
Seattle District

Public Notice of Application for Permit

Regulatory Branch

Post Office Box 3755

Seattle, Washington 98124-3755

Telephone (206) 764-3495

ATTN: Jim Green, Project Manager

Public Notice Date: May 24, 2004

Expiration Date: June 24, 2004

Reference: 200201289

Name: King County Department of
Natural Resources

Interested parties are hereby notified that an application has been received for a Department of the Army permit in accordance with Section 10 of the Rivers and Harbors Act of March 3, 1899, and Section 404 of the Clean Water Act for certain work described below and shown on the enclosed drawings.

APPLICANT - King County Department of Natural Resources
and Parks, Wastewater Treatment Division
Mr. William Wilbert
201 South Jackson Street, Suite 503
Seattle, Washington 98104
Telephone: (206) 296-7806

LOCATION - The proposed Brightwater Regional Wastewater Treatment System consists of four primary components located in north King County and South Snohomish County in the State of Washington. The sewage treatment plant site is located adjacent to Route 9 in south Snohomish County, just north of the City of Woodinville, Washington. The conveyance system, consisting of 17.8 miles of influent and effluent pipelines and five portals, will be located in both north King County and south Snohomish County but will primarily follow Northeast 195th and 205th Streets in King County. The safety relief point structure will be located in a man-made inlet adjacent to the Sammamish River at Kenmore, Washington. The marine outfall pipeline will be located in Puget Sound, off of Point Wells, near Woodway, Snohomish County, Washington (see sheet 1 of attached drawings). Disposal of dredged sediments from the construction activities for the marine outfall pipeline in Puget Sound may be disposed of at a PSDDA open-water disposal site located in either Elliott Bay, Puget Sound at Seattle or at Port Gardner, Puget Sound at Everett, Washington (see drawing sheets 16 and 17) and/or at an approved upland disposal site.

WORK - The proposed Brightwater project involves construction of a regional wastewater treatment system consisting of four primary components; 1) sewage treatment plant site; 2) conveyance system; 3) safety relief point structure; and 4) marine outfall pipeline. In addition, there will be maintenance work on the existing Chevron barge pier near the outfall location at Point Wells. The purpose of this public notice is to briefly describe the project components and the affected aquatic areas of each component that are regulated by the U.S. Army Corps of Engineers (Corps) under Section 10 of the Rivers and Harbors Act of March 3, 1899 and Section 404 of the Clean Water Act. Each project component and the affected aquatic areas are described below:

1) Sewage Treatment Plant Site. The sewage treatment plant site is 114 acres in size and rectangular in shape. The footprint of the treatment plant and support facilities is 43 acres. Onsite stormwater facilities, site landscaping, and community-oriented trails and facilities will occupy another 32 acres for a total facility

footprint of 75 acres. These facilities would be located in the central portion of the site (see drawing sheet 4). The northern portion of the site (37.3 acres) and the southern portion of the site (1.76 acres) will be used for compensatory wetland and stream mitigation (see mitigation description below and drawing sheets 6 through 8 for a description of the proposed mitigation plan).

Affected Aquatic Areas. Three natural streams; Howell Creek, 228th Street Creek, and Unnamed Creek flow across the plant site from east to west into Little Bear Creek via culverts under SR-9. In addition, six fully or partially piped watercourses (Watercourses 3 through 8) convey surface water through and from the site to Little Bear Creek (see drawing sheet 3 for details). The six piped watercourses will be relocated in order to construct the sewage treatment plant facilities. A portion of Howell Creek, Unnamed Creek, and 228th Street Creek will be relocated as part of the proposed wetland and stream mitigation. Flow from the northern watercourses will be rerouted north of the proposed treatment plant facilities into 228th Street Creek. Flow from the southern watercourses will be rerouted south of the proposed treatment plant facilities into Howell Creek. After the piped watercourses are diverted around the treatment plant construction area, the remaining open-channel portions of the watercourses will be filled and graded. After realignment of Howell Creek, Unnamed Creek, and 228th Street Creek during the construction of mitigation, the old streambeds will be filled and regraded as part of the proposed wetland and riparian mitigation. Wetland enhancement will include excavation and fill to create open water and habitat features and remove reed canarygrass and old fill material. Up to 40 cubic yards of fill material will be placed into 0.013 acres of the old channel of Howell Creek. Up to 870 cubic yards of fill material will be placed into approximately 0.09 acres (1,800 linear feet) of the old watercourses. In addition, up to 2,400 cubic yards of fill material will be placed into 0.24 acre of existing wetlands on the treatment plant site during construction of the mitigation areas. This quantity includes those portions of Unnamed Creek and 228th Street Creek (including a fish pond mitigation site) affected by construction of the mitigation areas. The educational trail and access road construction in the north mitigation area will require the filling of 0.03 acre (180 cubic yards) of disturbed wetland.

2) **Conveyance System.** The wastewater treatment system will include 17.8 miles of influent and effluent conveyance pipelines to serve the north King County and south Snohomish County wastewater treatment service areas (see drawing sheet 1). Most of the pipelines will be constructed by tunneling using a tunnel-boring machine. Tunnels will range in depth from 40 to 450-feet below the ground surface (see drawing sheet 11). Tunnel diameters will range from 14 to 16.5-feet depending on size and number of pipelines in each tunnel segment. The diameter of the conveyance pipelines will be 10-feet or greater, except for the outfall pipeline that will be 5-feet (60-inch) diameter. Microtunnel or open-cut construction will be utilized to connect existing pipelines to the new influent tunnel. The effluent pipeline is primarily a gravity flow system. One pump station will be needed to pump influent to the treatment plant. Five portals will be located along the pipeline corridors. These portals are between 40-feet and 80-feet in diameter and are required to provide access for the tunnel boring machine and follow-up maintenance of pipelines. The deepest portal would be approximately 190-feet in depth (Portal 5) (see drawing sheet 11).

Affected Aquatic Areas. Aquatic areas will not be affected by conveyance construction except at Portal 44. Construction at Portal 44 will require widening the entrances of two existing access roads off 80th Avenue Northeast at the northwest and southwest corners of the property. Widening both entrances will require replacing culverts that convey the East Fork of Little Swamp Creek and a small tributary (Stream 44-A). Lengthening and widening the culverts under these driveways will result in filling 0.014 acre (40 cubic yards) of wetlands. Construction of Portal 44 will temporarily impact approximately 97 linear feet of Stream 44-J (see drawing sheets 18 through 20). This area will be restored following construction. The conveyance system improvements include local connection between the existing King County-owned Swamp Creek trunk sewer and the new influent portal that will require placement of a pipeline under wetlands and streams. Portions of the local connections that occur under wetlands and streams will be constructed

using trenchless technology to bore under the wetlands and streams and will not require fill or surface disturbance.

3) Safety Relief Point Structure. A safety relief point structure is included in the project to prevent sanitary sewer overflows into homes, private property, and adjacent public property in the event of an extreme storm event or during multiple equipment failure scenarios. The safety relief point structure consists of a control structure constructed at the intersection of two existing King County-owned sewer interceptor lines located within a man-made inlet along the north shoreline of the Sammamish River at Kenmore, Washington (see drawing sheets 21 and 22). This structure will provide a known location where an overflow can be monitored and would provide more rapid dilution if such an event occurred compared to an uncontrolled release.

Affected Aquatic Areas. Construction of the safety relief point structure will require dewatering and excavating the existing inlet of the Sammamish River south of the facility. Excavation of 600 cubic yards of soil and substrate will be necessary to construct the structure at the proper elevation to control flows. This will impact 0.024 acre of wetland. Construction of outlet protection will require the placement of 350 cubic yards of riprap into the Sammamish River inlet to protect the existing sewer pipelines from scour during a discharge event. The riprap layer will extend 50 feet south of the safety relief point facility and will cover approximately 0.11 acre of inlet bottom. The riprap will be covered by a foot of clean, native sediment after construction (250 cubic yards). To facilitate construction of the structure and the outfall protection, it will be necessary to temporarily impact 0.14 of an acre of existing wetlands south of the facility along the west edge of the inlet. This area will be restored and replanted following construction.

4) Marine Outfall Pipeline. After wastewater is treated at the treatment plant site near Woodinville, the treated effluent will be directed through 10 miles of effluent pipeline to the marine outfall located off of Point Wells, Puget Sound near Woodway, Snohomish County, Washington. A 500-foot diffuser would be constructed at the end of the outfall pipeline. The outfall pipeline and diffuser will extend a total of approximately 5,200 feet offshore to a depth of 605-feet to achieve maximum dilution of the discharged effluent (see drawings sheets 12 through 15).

Affected Aquatic Area. The effluent pipeline would be trenched and buried in the Puget Sound nearshore area (flat shelf) that extends 500-feet offshore to a maximum depth of 30-feet. Between the start of outfall construction at Portal 19 and the point where depths exceed 30-feet deep, sheet piling would be driven to reduce nearshore disturbance. The width of the sheet piled trench would be 12-feet (see drawing sheet 15). The nearshore area would be trenched using barge-mounted excavation equipment and supported by supply barges and tugboats. Between the 30- to 80-foot depth, trench construction would not be sheet piled. The width of the non-sheet piled trench would vary with depth, but would average 75-feet wide. Up to 5,300 cubic yards of native sediment (0.66 acres) will be excavated from the nearshore of Puget Sound for construction of the trench to house the outfall pipeline. The trenched areas (0.66 acres) would be backfilled with 2,200 cubic yards of native or imported granular fill materials, 1,500 cubic yards of rock bedding material, and 1,450 cubic yards of armor rock. The excavated material may be disposed of at one of two PSDDA sites if the material is determine suitable for inwater disposal (see below). Beyond the 80-foot depth, the pipeline would be laid on the seafloor. Installation of the offshore segment of the pipeline would be determined by the contractor during final design and would likely be accomplished by segmented lay, controlled submergence, or bottom pull method.

Up to 3,700 square feet (0.08 acres) of eelgrass beds would be impacted by trench excavation in the nearshore area between the depths of -2 to -10.9-feet (National Ocean Survey Datum – median low lower water = 0.0 feet). This area is included within the sheeted portion of the marine outfall corridor (see drawing sheet 15).

Up to 5,300 cubic yards of material excavated from the nearshore trenched area may be disposed of at a Puget Sound Dredged Disposal Analysis (PSDDA) open-water disposal site located in either Elliott Bay, Puget Sound at Seattle or at Port Gardner, Puget Sound at Everett, Washington, as described below (see drawing sheets 16 and 17).

5) Chevron Barge Pier Maintenance. The existing Chevron barge pier adjacent to the outfall pipeline will be used for loading excavated material from portal and tunnel construction near Portal 19 onto barges to be transported to upland disposal sites (see drawing sheet 13). Utilization of the Chevron barge pier will require repairs to correct previously deferred maintenance of the pier.

Affected Aquatic Area. Up to 30 piles will be driven to upgrade the existing Chevron barge pier. These new piles would be driven parallel to the existing piles as "sisters" to existing degraded piles and would be installed by removing a portion of the existing decking, driving the new pile next to the old pile, attaching the new pile to support the dock, and replacing the decking. There will be no increase in the footprint of the existing barge pier.

A summary of all aquatic impacts for the project is provided in the attached drawings (see drawing sheet 23).

MITIGATION – In designing the Brightwater facilities, King County has attempted to avoid and minimize impacts to aquatic resources. However, construction of the Brightwater facilities will have impacts on aquatic resources regulated by the Corps, as described above. A detailed mitigation plan has been developed to offset aquatic resource impacts resulting from the Brightwater project. A summary of the mitigation plan is provided in the attached public notice drawing sheets (see sheets 6, 7, 8, 19, 22, 23, 24, 25, and 26). The mitigation plan includes restoration of intertidal and subtidal marine habitats, riparian wetland restoration, forested wetland creation, emergent wetland creation, emergent wetland enhancement, forested wetland enhancement, open-water wetland creation, upland riparian forest enhancement, culvert replacements, and stream channel restoration/relocation. A copy of the April 5, 2004 *Impact Assessment and Conceptual Wetland Mitigation Plan* is available for review upon request.

PURPOSE – To provide long-term wastewater treatment needs for citizens in north King County and south Snohomish County as described in King County's Regional Wastewater Services Plan.

PSDDA ANALYSIS –

Dredged Material Testing: The proposed dredged material will be tested according to the procedures specified in PSDDA, a multi-agency program for the evaluation of dredged material proposed for disposal at open-water sites in Puget Sound. The PSDDA evaluations may include both chemical and biological testing of sediments. For this project, a maximum of 5,300 cubic yards of sediment may be disposed of at a PSDDA nondispersive open-water disposal site in either Elliott Bay or Port Gardner, Puget Sound, if the material is determined suitable by the PSDDA agencies. Any sediments found unsuitable for open-water disposal will, after mechanical removal, be loaded onto trucks and transported to an upland disposal area, approved by the Washington State Department of Ecology and the Snohomish County Department of Health. The sediment testing data will be available at the Corps, Seattle District, Dredged Material Management Office.

a. Dredging Plan: If the PSDDA agencies determine that a portion of the material is suitable and the remainder of the material is unsuitable for disposal at the PSDDA nondispersive open-water disposal sites, a dredging plan, sufficient to adequately separate contaminated material from sediments suitable for open-water disposal will be prepared by the applicant and submitted to the regulatory agencies for review prior to dredging. A pre-dredging conference will be held to review quality control plans and procedures for material separation and disposal positioning.

b. Disposal Site Use Conditions: If some or all of the dredged material is found suitable for disposal at the PSDDA nondispersive open-water disposal sites, the following standard site use conditions will be specified by the Corps and the Washington Department of Natural Resources as part of the Federal/State permitting processes: (1) during the periods of tribal fishing in the disposal site area, disposal will only occur during daylight hours; and (2) during the daylight hours, "navigation rules of the road" will apply to the dredger in the event Indian treaty fishing is occurring at the disposal site. The dredger's permit will state that disposal is to occur when there is no treaty fishing occurring at the disposal site. Other appropriate special conditions may be added as a result of comments received during the public review period for this public notice.

ADDITIONAL INFORMATION – Due to the extensive nature of the project and the expected construction duration, the King County Department of Natural Resources has requested a permit to be valid through the year 2011.

The proposed project was subject of a Draft and Final Environmental Impact Statement prepared under the State Environmental Policy Act (SEPA). A copy of the SEPA EIS is available through the King County Department of Natural Resources, telephone (206) 684-6799, toll-free 1-888-707-8571, or 711 TTY. The SEPA EIS is also available for download at <http://dnr.metrokc.gov/wtd/brightwater/env.feis.htm>.

ENDANGERED SPECIES - The Endangered Species Act (ESA) of 1973, as amended, requires assessment of potential impacts to listed and proposed species. Chinook salmon (*Oncorhynchus tshawytscha*), bull trout (*Salvelinus confluentus*), the bald eagle (*Haliaeetus leucocephalus*), and the marbled murrelet (*Brachyramphus marmoratus*), all listed as threatened in the state of Washington, occur in the proposed project areas. A preliminary determination indicates that the activity is likely to adversely affect chinook salmon and bull trout, and is not likely to adversely affect the bald eagle and marbled murrelet. Formal consultation under Section 7 of the ESA has been initiated with National Marine Fisheries Service (NMFS) and the U.S. Fish and Wildlife Service.

Critical habitat for coastal/Puget Sound bull trout is anticipated to be proposed in June, 2004. If critical habitat is proposed for either bull trout or Puget Sound chinook salmon, the Corps will initiate conferencing procedures for critical habitat that may be impacted by the proposal.

ESSENTIAL FISH HABITAT - The Magnuson-Stevens Fishery Conservation and Management Act (MSA), as amended by the Sustainable Fisheries Act of 1996, requires all Federal agencies to consult with the NMFS on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). EFH for Pacific salmon, groundfish, and coastal pelagic species occurs in some of the project areas.

The Corps has determined that the proposed action will adversely affect designated EFH for Pacific salmon and groundfish in tidal waters off of Point Wells, Puget Sound, but will not adversely affect EFH for coastal pelagic species. The Corps has initiated EFH consultation with the NMFS.

CULTURAL RESOURCES - The District Engineer has reviewed the latest published version of the National Register of Historic Places, lists of properties determined eligible and other sources of information. The following is current knowledge of the presence or absence of historic properties and the effects of the undertaking upon these properties:

A preliminary historic properties investigation has been conducted within the permit areas. No known listed historic properties occur on the Route 9 site, on the proposed portal sites, or along the outfall pipeline alignment. The Route 9 site was determined to contain two structures that are eligible for listing on the National Register of Historic Places. No historic structures were found to exist within the permit area on the

portals or within the marine outfall corridor. Four shipwrecks are known to exist within the vicinity of the marine outfall alignment. The eligibility for listing of shipwrecks on the National Register of Historic Places has not been determined. Because of the location of the Route 9 site, all five Portals, the outfall pipeline, and the safety relief point structure in the landscape (i.e. adjacent to rivers, streams, or Puget Sound), there is a high likelihood that unknown historic properties occur in the project area. Site-specific historic properties investigation may be required during the permit review.

The District Engineer invites responses to this public notice from Federal, Native American Nations or tribal governments, State, and local agencies, historical and archeological societies, and other parties likely to have knowledge of or concerns with historic properties in the area.

PUBLIC HEARING - Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

EVALUATION - The decision whether to issue a permit will be based on an evaluation of the probable impact, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people.

The Corps is soliciting comments from the public; Federal, Native American Nations or tribal governments, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for the work. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

The evaluation of the impact of the activity on the public interest will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act. This evaluation will include an alternatives analysis.

ADDITIONAL EVALUATION - The State of Washington is reviewing this work for consistency with the approved Washington Coastal Zone Management Program and for compliance with the applicable State and Federal water quality standards pursuant to Section 401 of the Clean Water Act.

This proposal is the subject of two Shorelines Substantial Development Permit Applications being processed by Snohomish County (Application No. 04-109621-SM) and the City of Kenmore (application number to be determined).

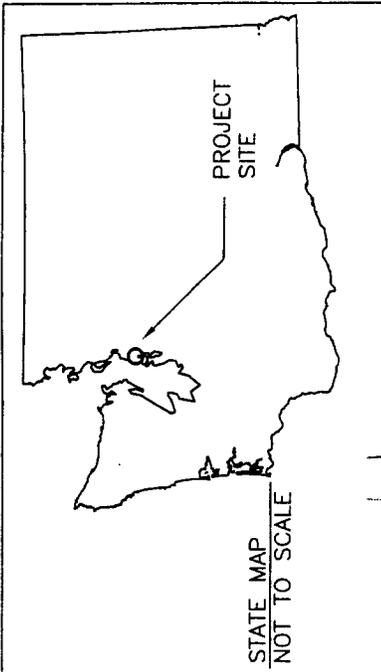
COMMENT AND REVIEW PERIOD - Conventional mail or e-mail comments on this public notice will be accepted and made part of the record and will be considered in determining whether it would be in the public interest to authorize this proposal. In order to be accepted, e-mail comments must originate from the author's

200201289

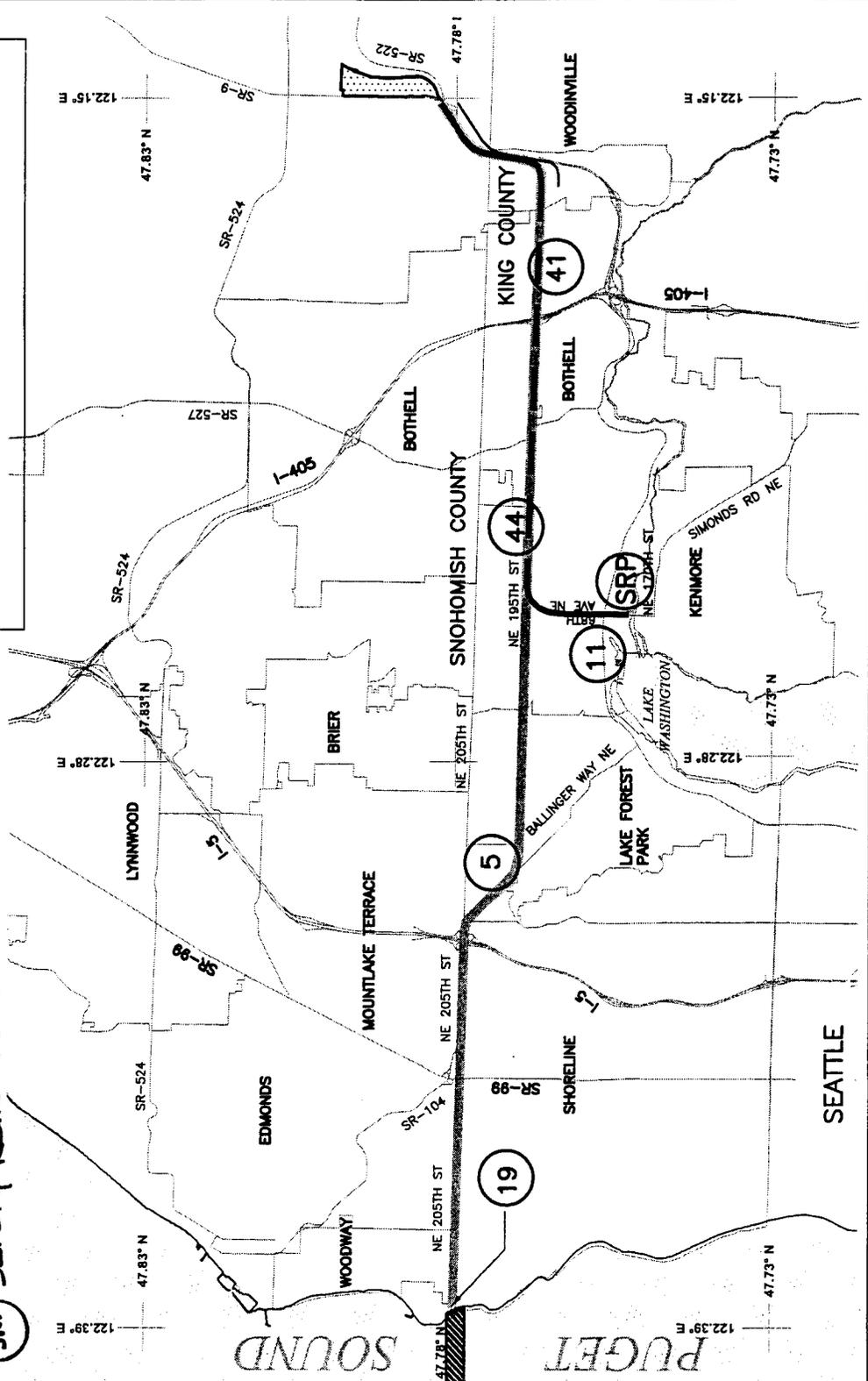
e-mail account and must include on the subject line of the e-mail message the permit applicant's name and reference number as shown below. All e-mail comments should be sent to james.d.green@usace.army.mil. Conventional mail comments should be sent ATTN: Regulatory Branch. Both conventional mail or e-mail comments must include the permit applicant's name and reference number, as shown below, and the commentor's name, address, and phone number. All comments whether conventional mail or e-mail must reach this office, no later than the expiration date of this public notice to ensure consideration. Please include the following name and reference number:

King County Department of Natural Resources, 200201289

Encl
Drawings (30 sheets)



- LEGEND**
- PORTAL AREA (Not to Scale)
 - ROUTE 9 SITE
 - OUTFALL ZONE
 - INFLUENT TUNNEL
 - EFFLUENT TUNNEL
 - Safety Relief Point*



PURPOSE: PROVIDE SEWAGE TREATMENT

DATUM: NGVD - NOS

LOCATION: VARIES

REFERENCE: 2002-2-01289

VICINITY MAP

APPLICANT: KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS

201 SOUTH JACKSON ST. SUITE 530 SEATTLE, WA 98104

PROPOSED: SEWAGE TREATMENT PLANT, CONVEYANCE, AND OUTFALL

COUNTY: KING, STATE: WA SNOHOMISH

SHEET 1 OF 30

DATE: APRIL 9, 2004

OVERALL PROJECT NARRATIVE

King County is proposing to build a new regional wastewater treatment system called the Brightwater Regional Wastewater Treatment System (Brightwater) by the year 2010. Brightwater will include a treatment plant to provide secondary treatment of wastewater, conveyance pipelines and pump stations to carry wastewater to the plant and treated effluent from the plant, and an outfall to discharge the treated wastewater to Puget Sound. The treatment plant would provide secondary treatment capacity in 2010 for 36 million gallons per day (mgd) of wastewater, with anticipated expansion in about 2040 to 54 mgd.

Project elements include: Treatment Plant,
Conveyance System (includes Portals 11, 5, 41, 44, and 19),
Outfall, and
Safety Relief Point.

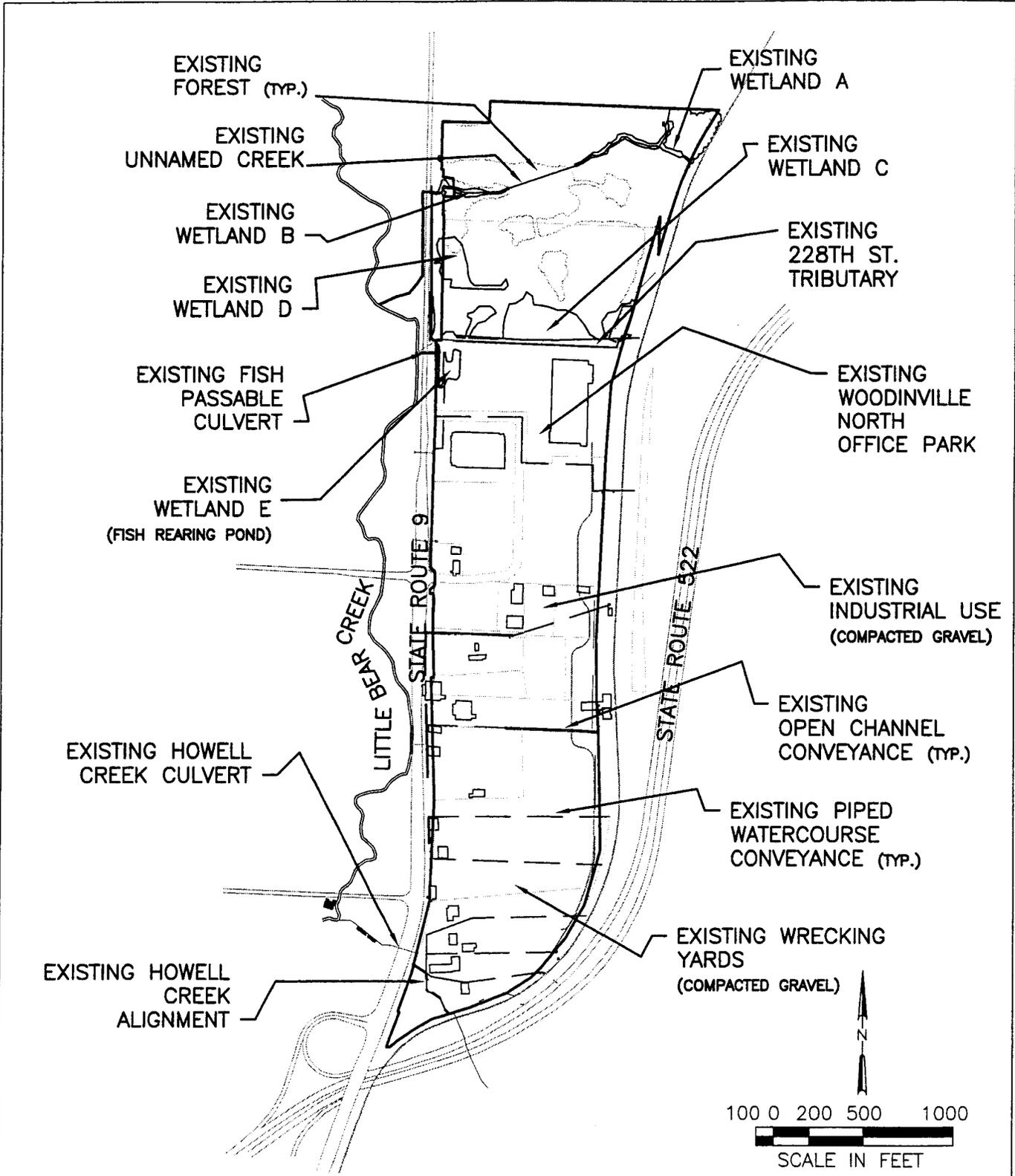
TREATMENT PLANT

The treatment plant site is located in unincorporated Snohomish County east of SR-9 and north of the City of Woodinville. The 114.3-acre site is roughly rectangular in shape. The northern portion of the site (37.3 acres) is largely undeveloped and partially forested, with wetlands and streams present. This area is located outside of the Snohomish County Urban Growth Area. This area would not be used for construction of treatment facilities. The central and southern portions of the site are developed for commercial and industrial uses and would be used for treatment facilities. The total footprint of the treatment plant and support facilities would be approximately 43 acres, with an additional 4 acres reserved for expansion for full flow conventional activated sludge. The remaining site area will be used for stormwater management facilities, access roads, public access, and additional site landscaping.

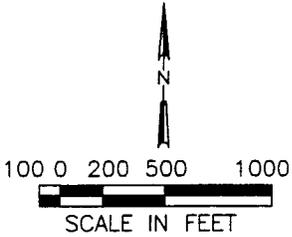
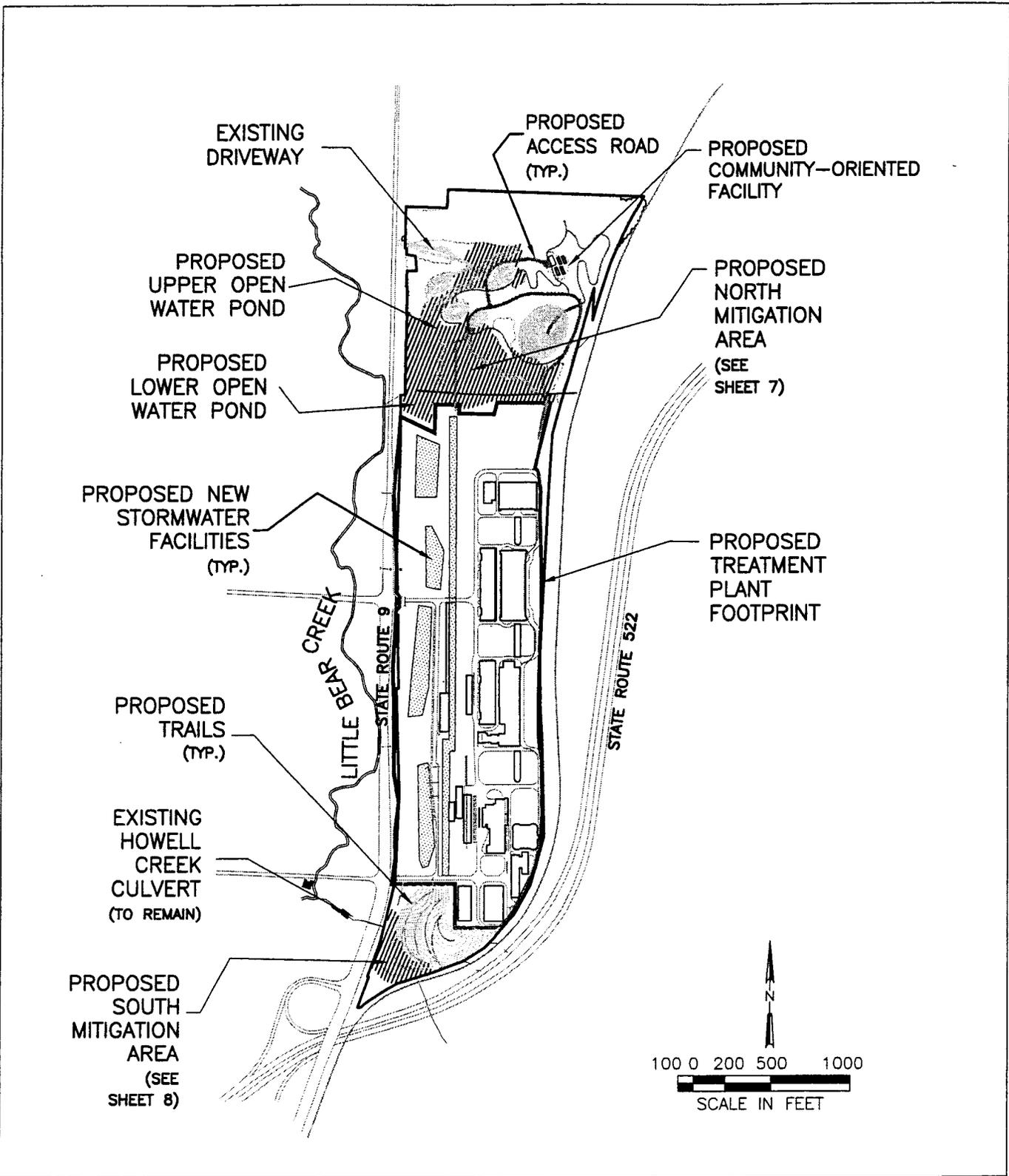
TREATMENT PLANT WETLAND SUMMARY

Five wetlands (Wetlands A through E) have been identified on the treatment plant site. Vegetation community types in the wetlands include forested, scrub-shrub, emergent, and open water habitats. All of the wetlands are located on the undeveloped north portion of the site. Wetlands A, B, C, and E are associated with streams. Three streams, Howell Creek, 228th Street Creek, and Unnamed Creek are situated onsite. These three streams flow from the site directly to Little Bear Creek via culverts under SR-9. Six fully or partially piped watercourses convey surface water through and from the site. A seventh watercourse is a small tributary to Unnamed Creek. All of the streams and watercourses are tributary to Little Bear Creek.

<p>PURPOSE: PROVIDE SEWAGE TREATMENT</p> <p>DATUM: NGVD - NOS</p> <p>LOCATION: VARIES</p> <p>REFERENCE: 2002-2-01289</p>	<p>PROJECT NARRATIVE</p> <p>APPLICANT: KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS</p> <p>201 SOUTH JACKSON ST. SUITE 530 SEATTLE, WA 98104</p>	<p>PROPOSED: SEWAGE TREATMENT PLANT, CONVEYANCE AND OUTFALL</p> <p>COUNTY: SNOHOMISH STATE: WA</p> <p>SHEET 2 OF 30</p> <p>DATE: APRIL 9, 2004</p>
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<p>PURPOSE: PROVIDE SEWAGE TREATMENT</p> <p>DATUM: NGVD - NOS</p> <p>LOCATION: T27N R5E S26, 35 WM</p> <p>REFERENCE: 2002-2-01289</p>	<p>TREATMENT PLANT SITE EXISTING CONDITIONS</p> <p>APPLICANT: KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS</p> <p>201 SOUTH JACKSON ST. SUITE 530 SEATTLE, WA 98104</p>	<p>PROPOSED: SEWAGE TREATMENT PLANT, CONVEYANCE AND OUTFALL</p> <p>COUNTY: SNOHOMISH STATE: WA</p> <p>SHEET 3 OF 30</p> <p>DATE: APRIL 9, 2004</p>
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<p>PURPOSE: PROVIDE SEWAGE TREATMENT</p> <p>DATUM: NGVD - NOS</p> <p>LOCATION: T27N R5E S26, 35 WM</p> <p>REFERENCE: 2002-2-01289</p>	<p>TREATMENT PLANT SITE-SITE PLAN</p> <p>APPLICANT: KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS</p> <p>201 SOUTH JACKSON ST. SUITE 530 SEATTLE, WA 98104</p>	<p>PROPOSED: SEWAGE TREATMENT PLANT, CONVEYANCE AND OUTFALL</p> <p>COUNTY: SNOHOMISH STATE: WA</p> <p>SHEET 4 OF 30</p> <p>DATE: APRIL 9, 2004</p>
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TREATMENT PLANT PROJECT SUMMERY

Construction of treatment plant facilities will include demolition of existing structures; excavation and grading; installation of retaining walls, access roadways, underground utilities, and drainage systems; and restoration, enhancement, and relocation of some onsite streams and watercourses. Construction of the treatment plant facilities includes relocation of stormwater pipes that currently direct surface waters west across the site. Surface water from up-slope, offsite seeps and wetlands will be collected and diverted in two pipes north and south of the plant site. Educational and community-oriented facilities are included as part of the non-process portion of the treatment plant. Trails and boardwalks will be constructed within areas of current wetland and proposed wetland creation areas. Boardwalks and bridges will be used to cross wetlands and other waters of the U.S. (including restored, enhanced, and created wetlands).

TREATMENT PLANT IMPACT SUMMARY

Construction of treatment facilities will require extensive grading and modification within the footprint of the treatment plant. The entire site south of the Snohomish County Urban Growth Area will be redeveloped. This will result in filling approximately 1,800 linear feet of open ditch that conveys surface water from seeps east of the treatment plant west across the site. Howell Creek will be relocated and restored.

Construction of proposed habitat mitigation and enhancements will require temporary modification of approximately 3.11 acres of existing wetlands (Wetlands C, D, and E) and permanent fill of 0.27 acre (Wetlands C and E) during construction of these mitigation elements. These modifications are largely short-term and are necessary to improve habitat functions on the site. A long term impact will be the loss of approximately 0.34 acre of currently available open water pond, wetland fringe, and outlet channel that was constructed as a wetland mitigation area to facilitate previous development on a portion of the Route 9 site (Wetland E). An equal or greater area of open water pond habitat accessible for fish rearing will be replaced on the site.

Habitat restoration and enhancement also includes the daylighting, relocation, and realignment of Unnamed Creek and 228th Street Creek and the realignment, daylighting, and restoration of Howell Creek and a Howell Creek tributary. Realignment of Unnamed Creek will divert surface water flow from Wetland B; however, Wetland B and the abandoned stream channel for Unnamed Creek will not be filled. Construction of the watercourse diversion pipe that will convey surface water drainage north from the plant site to the mitigation areas will result in temporary impacts to existing wetland. Native materials removed to facilitate pipe construction will be returned and restored following construction.

<p>PURPOSE: PROVIDE SEWAGE TREATMENT</p> <p>DATUM: NGVD - NOS</p> <p>LOCATION: VARIES</p> <p>REFERENCE: 2002-2-01289</p>	<p>TREATMENT PLANT SUMMARY</p> <p>APPLICANT: KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS</p> <p>201 SOUTH JACKSON ST. SUITE 530 SEATTLE, WA 98104</p>	<p>PROPOSED: SEWAGE TREATMENT PLANT, CONVEYANCE AND OUTFALL</p> <p>COUNTY: SNOHOMISH STATE: WA</p> <p>SHEET 5 OF 30</p> <p>DATE: APRIL 9, 2004</p>
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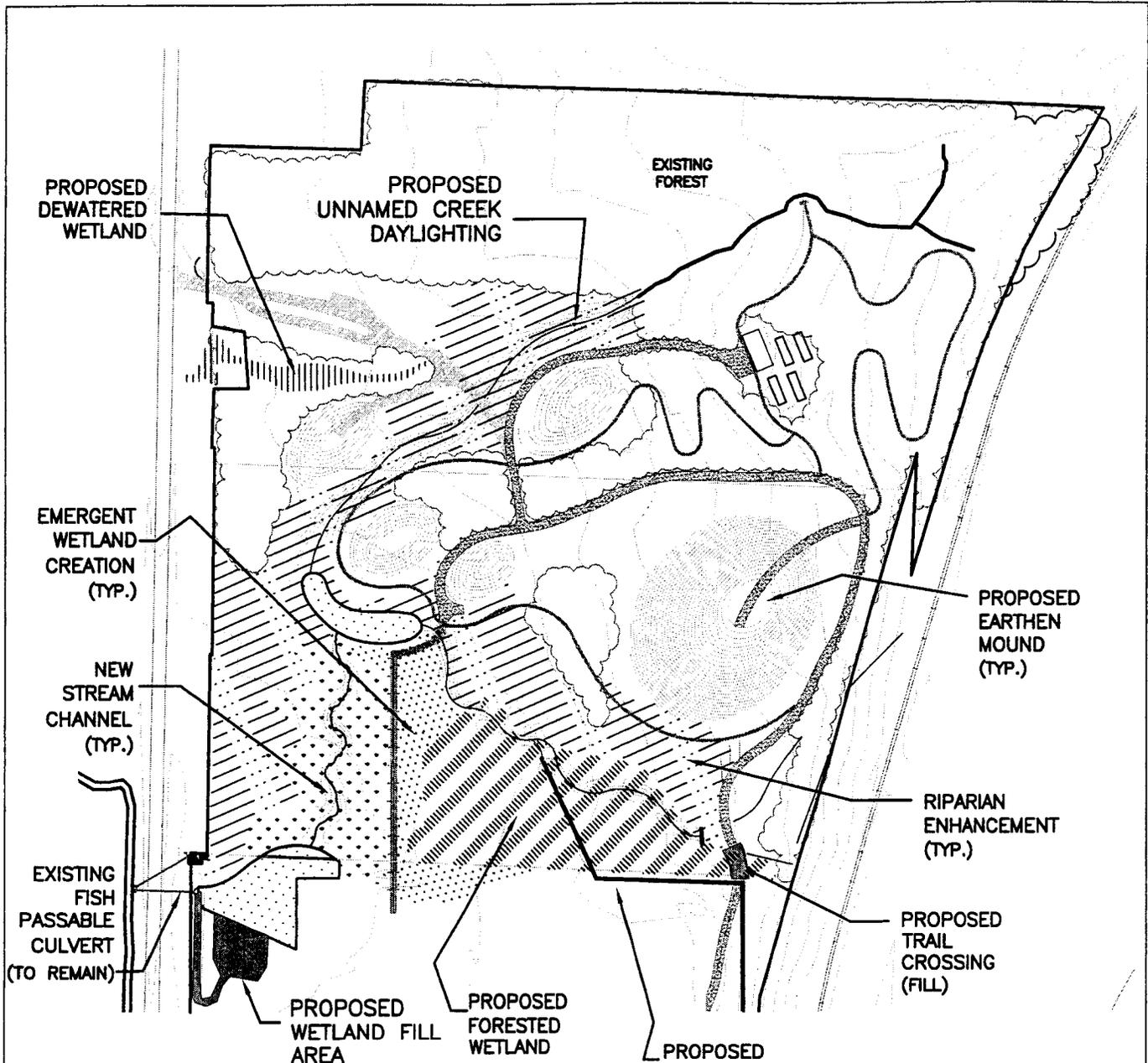
TREATMENT PLANT PROPOSED MITIGATION

Impacts to wetlands and other waters of the U.S. that are associated with the restoration and realignment of Howell Creek, 228th Street Tributary, and Unnamed Creek will be temporary. To compensate for the temporary loss of functions for these streams, riparian areas within approximately 150 feet of each relocated fish-bearing stream channel will be revegetated with riparian forest-type vegetation. This will result in the creation of approximately 6.5 acres of new riparian forest on the Route 9 site. No permanent loss of wetland area will occur as a result of construction of the flow diversion pipe. Mitigation measures will include restoring approximately 0.12 acre of Wetland C following construction of the flow diversion pipe.

Compensatory Mitigation. A minimum of 1.42 acres of new wetlands will be created from low quality upland areas to compensate for filling 0.37 acres of wetland or other waters of the U.S. This represents an approximately 4:1 replacement ratio.

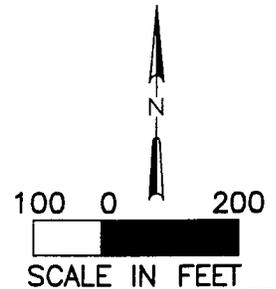
Excavation in wetlands for the purpose of stream reconstruction, wetland enhancement, or diversion pipe installation is not anticipated to result in a permanent loss of wetland area or function over the long-term; however, these impacts will result in short-term losses to wetland functions between the time the impact occurs and the time the areas are restored to functioning condition following construction. As compensation for temporary impacts from following construction, 3.27 acre of existing low quality wetlands will be enhanced. The total amount of jurisdictional wetland (created and mitigation plus enhanced existing jurisdictional wetland) upon completion of treatment plant construction will be 4.69 acres (1.42 creation plus 3.27 enhancement). Of this area, at least 0.34 acre will be open water wetland available for juvenile fish rearing.

<p>PURPOSE: PROVIDE SEWAGE TREATMENT</p> <p>DATUM: NGVD - NOS</p> <p>LOCATION: VARIES</p> <p>REFERENCE: 2002-2-01289</p>	<p>TREATMENT PLANT PROPOSED MITIGATION</p> <p>APPLICANT: KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS 201 SOUTH JACKSON ST. SUITE 530 SEATTLE, WA 98104</p>	<p>PROPOSED: SEWAGE TREATMENT PLANT, CONVEYANCE AND OUTFALL</p> <p>COUNTY: SNOHOMISH STATE: WA</p> <p>SHEET 6 OF 30</p> <p>DATE: APRIL 9, 2004</p>
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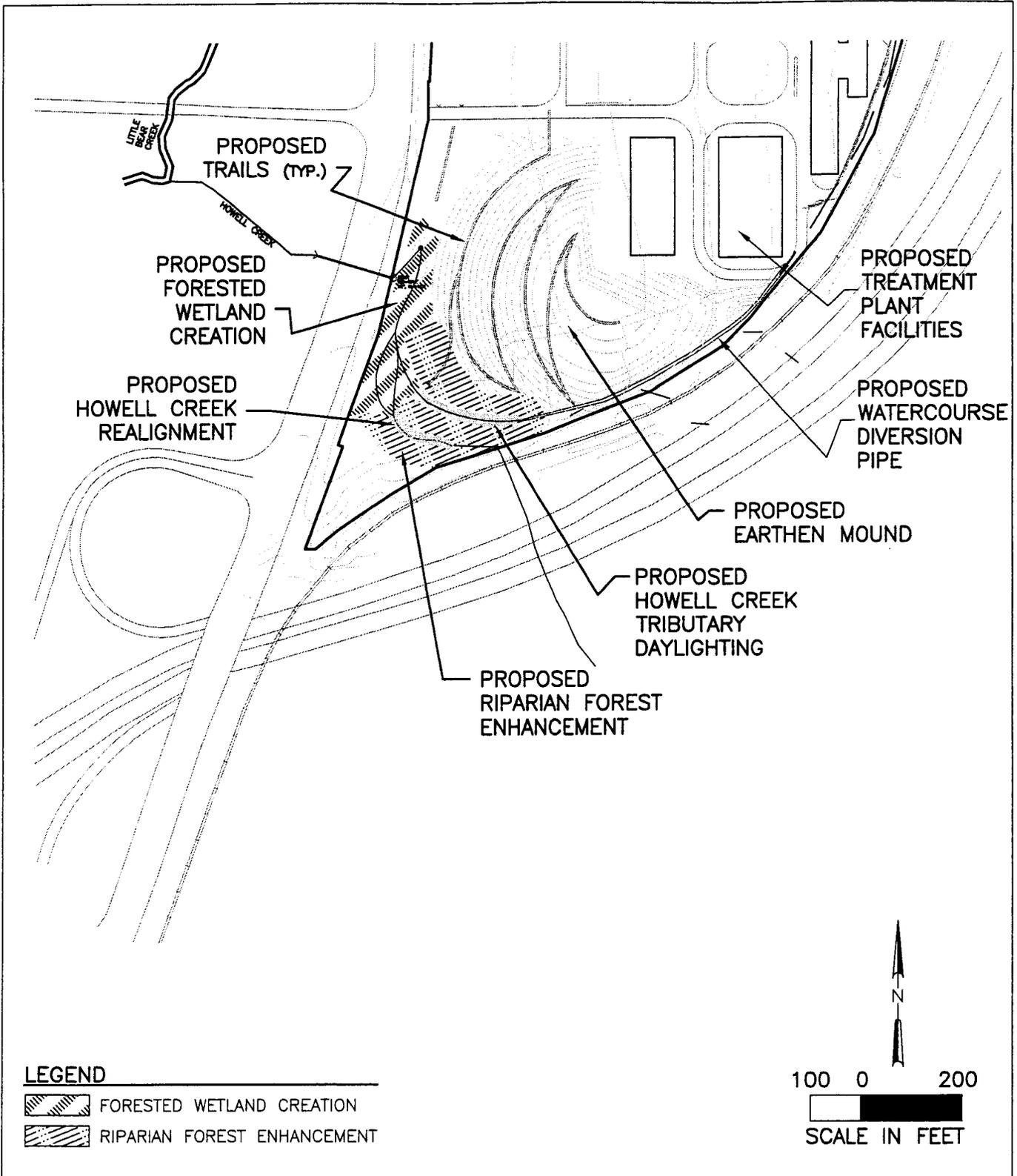


LEGEND

- RIPARIAN FOREST ENHANCEMENT
- DEWATERED WETLAND
- OPEN WATER WETLAND
- FORESTED WETLAND
- SCRUB-SHRUB WETLAND
- EMERGENT WETLAND
- WETLAND FILL AREAS

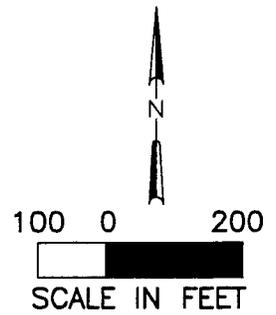


<p>PURPOSE: PROVIDE SEWAGE TREATMENT</p> <p>DATUM: NGVD - NOS</p> <p>LOCATION: T27N R5E S26, 35 WM</p> <p>REFERENCE: 2002-2-01289</p>	<p>TREATMENT PLANT SITE NORTH MITIGATION AREA</p> <p>APPLICANT: KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS</p> <p>201 SOUTH JACKSON ST. SUITE 530 SEATTLE, WA 98104</p>	<p>PROPOSED: SEWAGE TREATMENT PLANT, CONVEYANCE AND OUTFALL</p> <p>COUNTY: SNOHOMISH STATE: WA</p> <p>SHEET 7 OF 30</p> <p>DATE: APRIL 9, 2004</p>
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LEGEND

-  FORESTED WETLAND CREATION
-  RIPARIAN FOREST ENHANCEMENT



<p>PURPOSE: PROVIDE SEWAGE TREATMENT</p> <p>DATUM: NGVD - NOS</p> <p>LOCATION: T27N R5E S26, 35 WM</p> <p>REFERENCE: 2002-2-01289</p>	<p>TREATMENT PLANT SITE SOUTH MITIGATION AREA</p> <p>APPLICANT: KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS</p> <p>201 SOUTH JACKSON ST. SUITE 530 SEATTLE, WA 98104</p>	<p>PROPOSED: SEWAGE TREATMENT PLANT, CONVEYANCE AND OUTFALL</p> <p>COUNTY: SNOHOMISH STATE: WA</p> <p>SHEET 8 OF 30</p> <p>DATE: APRIL 9, 2004</p>
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CONVEYANCE

The project includes construction of a conveyance system to carry influent to the new treatment plant and effluent to an outfall in Puget Sound. A number of components will comprise the conveyance system including influent and effluent pipelines, new pump stations, local connections to the existing King County wastewater system, and a safety relief point. The total length of all conveyance corridors for the project is 17.8 miles. The main influent and effluent pipelines will be constructed within deep tunnels constructed with tunnel boring machines. The conveyance tunnels will be as shallow as 40 feet and as deep as 450 feet depending on the surface topography. Portals will provide access to the tunnel from the ground surface for launching and retrieving tunnel boring equipment and installing the influent and effluent pipelines. After construction, portal sites will contain pump stations, provide ongoing maintenance access, and will be where the Brightwater Treatment System conveyance tunnels and pipelines receives influent from the existing sanitary sewer collection system via local connections. Five portals are proposed for the conveyance system:

Portal 11 (South Kenmore Portal): Portal 11 is located west of the intersection of Juanita Drive NE and NE 175th Street in the City of Kenmore. The site is currently occupied by light industrial and commercial properties. The site is approximately 2.3 acres in size. No wetlands or streams are present at this portal site.

Portal 5 (Ballinger Way Portal): Portal 5 is located on the southwest side of Ballinger Way NE, northwest of the 19th Avenue NE intersection in the City of Shoreline. The majority of the portal site is characterized by commercial development. The site is 1.8 acres in size. No wetlands or streams are present at this portal site.

Portal 41 (North Creek Portal): Portal 41 is located in a commercial area on the southeast corner of NE 195th Street and North Creek Parkway in the City of Bothell. The site is 3.7 acres in size. No wetlands or streams will be impacted at this portal site.

Portal 19 (Point Wells Portal): Portal 19 site is 8.5 acres in size (total area) and located on the southern portion of the Chevron facility at Point Wells in unincorporated Snohomish County. The portal will require only approximately a 1-acre to 2-acre portion of the 8.5 acres of area available. The southern end the Portal 19 site contains a small 0.06-acre wetland (Wetland 19-A). Wetland 19-A will not be directly impacted by the project. No surface streams will be impacted at this portal site.

Portal 44 (North Kenmore Portal): Portal 44 is approximately 27 acres in size (total area) and is located east of 80th Avenue NE between NE 192nd Street and NE 195th Street in the City of Kenmore, Washington. The portal will require only a small portion of the total portal site area. A horse riding facility and pasture currently occupies the northern and

<p>PURPOSE: PROVIDE SEWAGE TREATMENT</p> <p>DATUM: NGVD – NOS</p> <p>LOCATION: VARIES</p> <p>REFERENCE: 2002-2-01289</p>	<p>CONVEYANCE SYSTEM SUMMARY</p> <p>APPLICANT: KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS 201 SOUTH JACKSON ST. SUITE 530 SEATTLE, WA 98104</p>	<p>PROPOSED: SEWAGE TREATMENT PLANT, CONVEYANCE AND OUTFALL</p> <p>COUNTY: SNOHOMISH STATE: WA</p> <p>SHEET 9 OF 30</p> <p>DATE: APRIL 9, 2004</p>
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western portion of the North Kenmore Portal site. The southern portion of the property includes vacant residences, a tennis court, and driveways. Eight wetlands (Wetlands 44-A through 44-H), the east fork of Little Swamp Creek, and ten unnamed watercourses (Streams 44-A through 44-J) were identified within the Portal 44 site area. All watercourses are within the Swamp Creek drainage basin.

OUTFALL

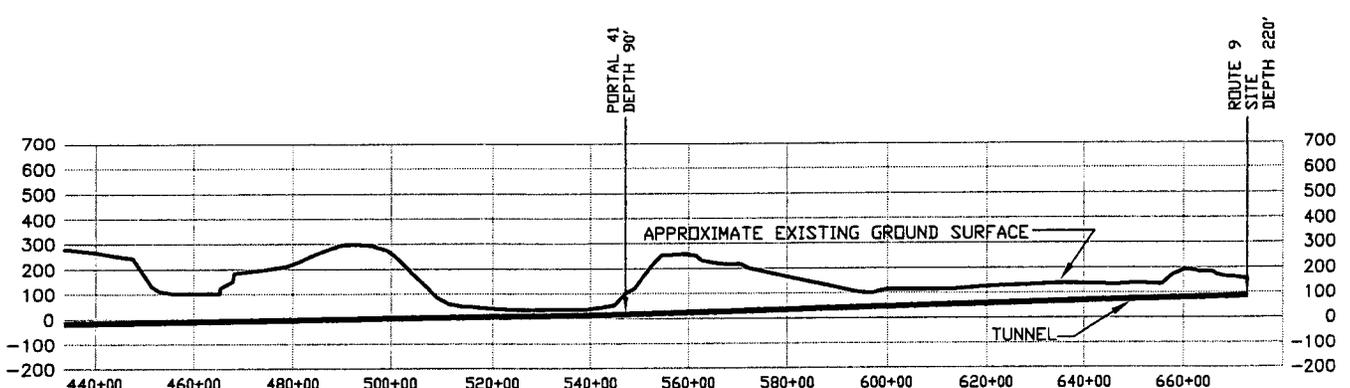
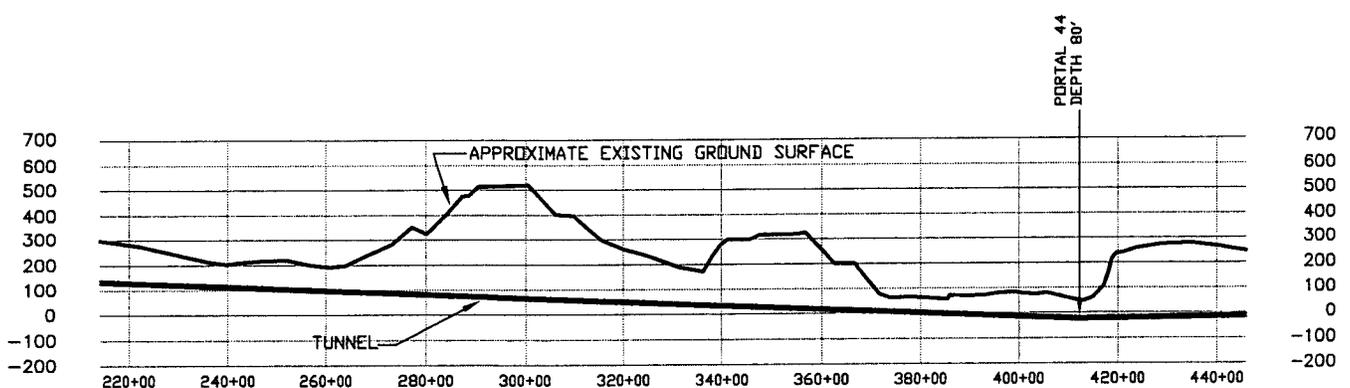
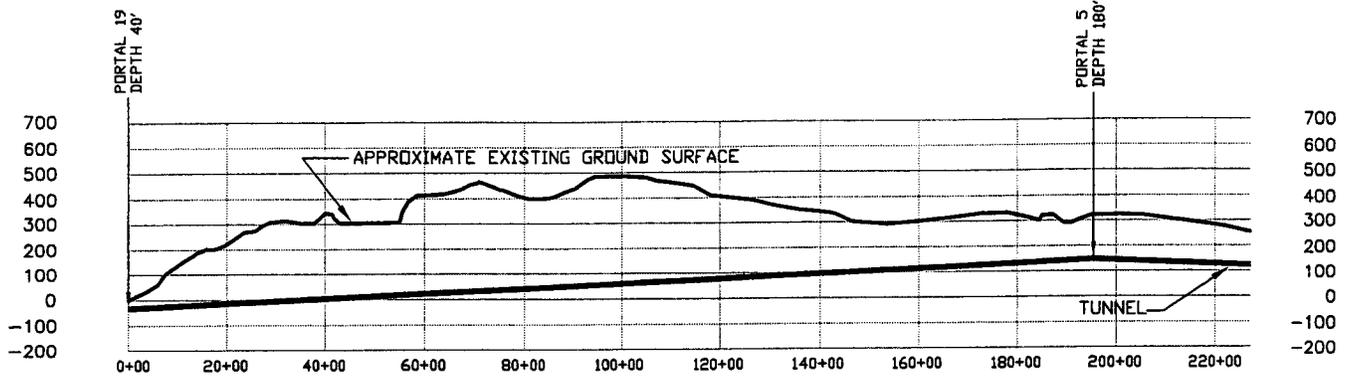
The outfall site is located in the Puget Sound shoreline area adjacent to Point Wells in unincorporated Snohomish County. Point Wells is composed of a natural point of land that was reinforced with a rubble seawall by the railroad more than 100 years ago. The Chevron barge dock is located immediately north of the outfall zone. The outfall will start at the land-based conveyance tunnel portal located at Point Wells (Portal 19), continue on land to the tip of Point Wells, then cross the shoreline into Puget Sound. The outfall would extend about 5,200 feet offshore, ending in a 500-foot diffuser at approximately -605 feet Mean Lower Low Water (MLLW). The diffuser will be designed to ensure significant mixing of treated wastewater with surrounding marine waters. Construction activities for the outfall will have impacts on marine intertidal and subtidal areas.

SAFETY RELIEF POINT

During extreme rain or snowfall conditions and/or during multiple equipment failure scenarios, untreated wastewater could overflow undirected from the existing sanitary sewer conveyance system and threatens public safety and health. To alleviate this situation, the project includes a Safety Relief Point that will direct flows to a larger waterbody instead of into homes, private property, and surface waters ~~and~~^{that} might occur with an undirected release. The probability of using the Safety Relief Point is estimated to be in excess of one event every 50 years and is not considered a normal component of conveyance system operations.

The Safety Relief Point site is located east of Juanita Drive NE, north of the Sammamish River, adjacent to a lumberyard. The Safety Relief Point is located approximately 2,200 feet upstream of the mouth of the Sammamish River at Lake Washington. The Safety Relief Point site is in proximity to three wetlands (Wetlands SRP-A through SRP-C) and the Sammamish River. The Safety Relief Point is located at the north end of an excavated inlet oriented perpendicular to the Sammamish River. A palustrine emergent and scrub/shrub wetland (Wetland SRP-B) is located on the north and west sides of this excavated inlet. The on-site portion of this Wetland SRP-B extends offsite along the north bank of the Sammamish River under the existing bridge at Juanita Drive NE.

<p>PURPOSE: PROVIDE SEWAGE TREATMENT</p> <p>DATUM: NGVD - NOS</p> <p>LOCATION: VARIES</p> <p>REFERENCE: 2002-2-01289</p>	<p>CONVEYANCE SYSTEM SUMMARY (CONT.)</p> <p>APPLICANT: KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS</p> <p>201 SOUTH JACKSON ST. SUITE 530 SEATTLE, WA 98104</p>	<p>PROPOSED: SEWAGE TREATMENT PLANT, CONVEYANCE AND OUTFALL</p> <p>COUNTY: SNOHOMISH STATE: WA</p> <p>SHEET 10 OF 30</p> <p>DATE: APRIL 9, 2004</p>
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PURPOSE: PROVIDE
SEWAGE TREATMENT

DATUM: NGVD - NOS
LOCATION: VARIES

REFERENCE:
2002-2-01289

**EFFLUENT TUNNEL
PROFILE**

APPLICANT:
KING COUNTY DEPARTMENT OF
NATURAL RESOURCES
AND PARKS
201 SOUTH JACKSON ST.
SUITE 530
SEATTLE, WA 98104

PROPOSED: SEWAGE TREATMENT
PLANT, CONVEYANCE AND
OUTFALL

COUNTY: KING, STATE: WA
SNOHOMISH

SHEET 11 OF 30

DATE: APRIL 9, 2004

OUTFALL

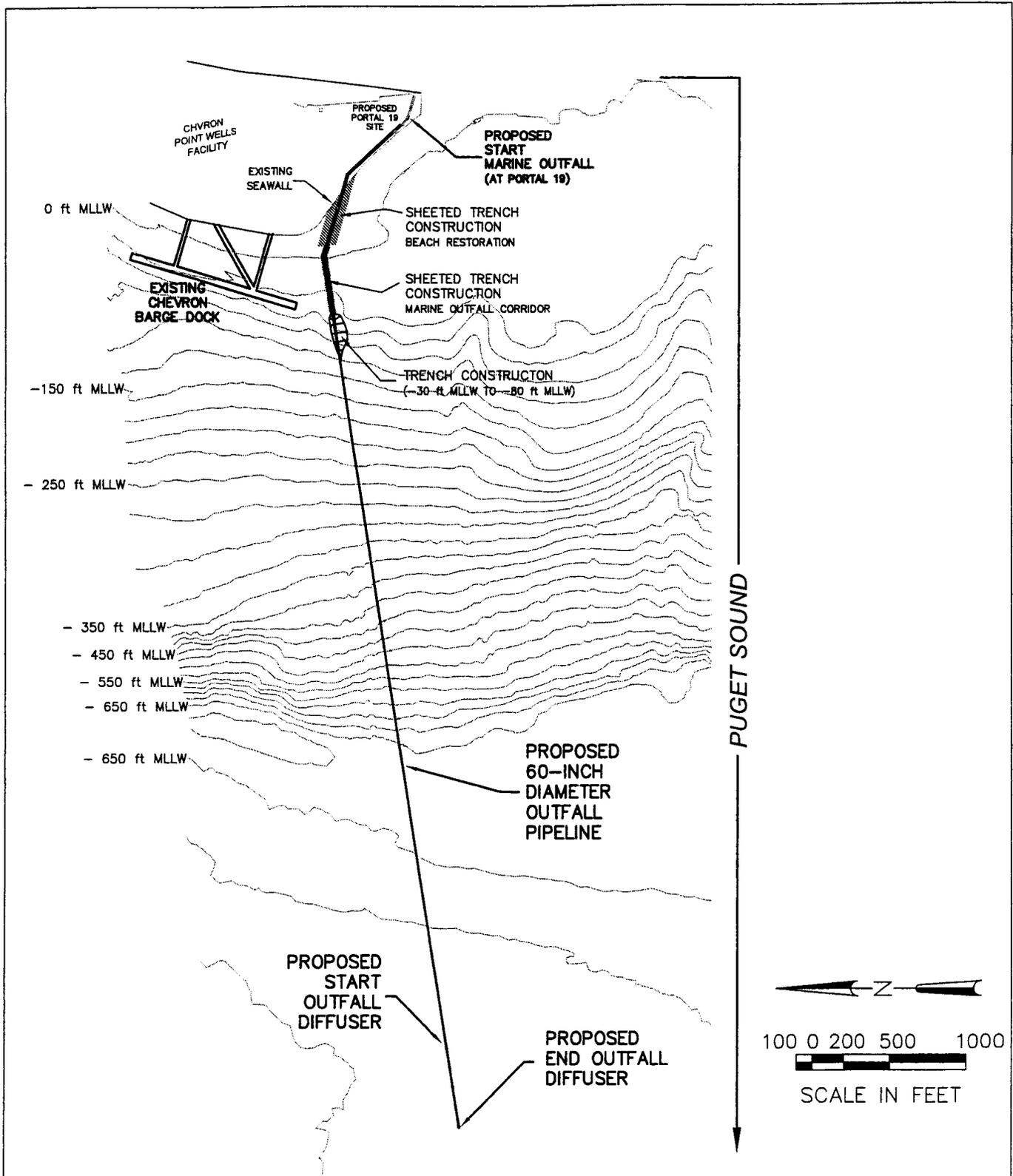
The outfall will consist of a 60-inch inside diameter pipeline starting at the land-based conveyance tunnel portal located at Point Wells (Portal 19) and terminating in a multi-port diffuser. Pipeline installation includes both on-land (onshore) and in-water (nearshore, offshore, and diffuser) construction methods. Onshore construction occurs on the Portal 19 site. The offshore segment (approximately 5,200 feet) continues across an area of increasing slope (up to 35%) to the flat main channel area of Puget Sound. The diffuser (500 feet) would be located in a flat area at -605 feet MLLW.

The outfall pipeline will be buried using open-trench construction methods onshore and through the nearshore to a water depth of -80 feet MLLW. Trench shoring (sheetpile) is anticipated for the onshore construction and nearshore construction down to -30 feet MLLW. Sheetpile will be driven via a barge-mounted vibratory hammer. Excavation of the trench would be performed by mechanical equipment such as a clamshell operated by a barge-mounted crane. Supply barges and tugboats would support the excavation. Offshore construction methods would place the outfall pipeline, including the diffuser, directly on the seafloor.

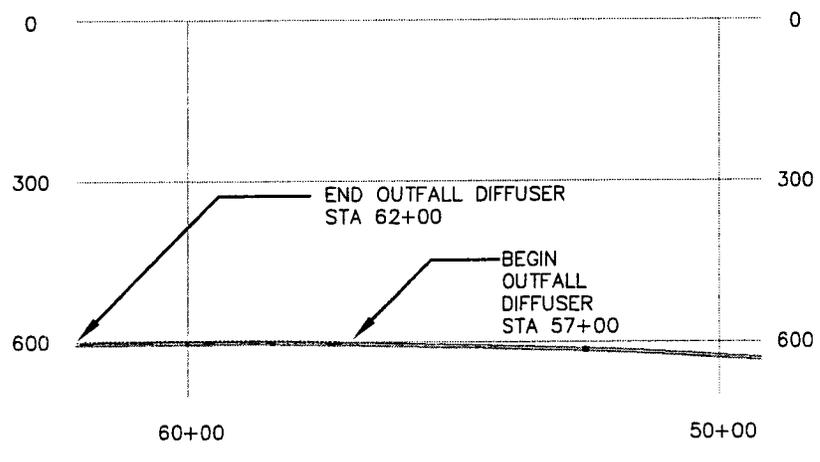
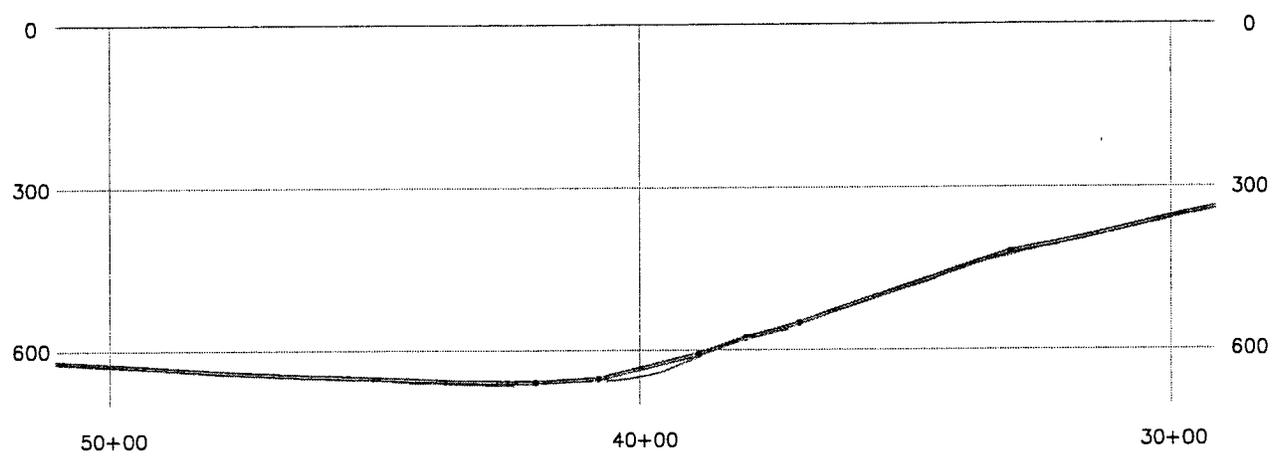
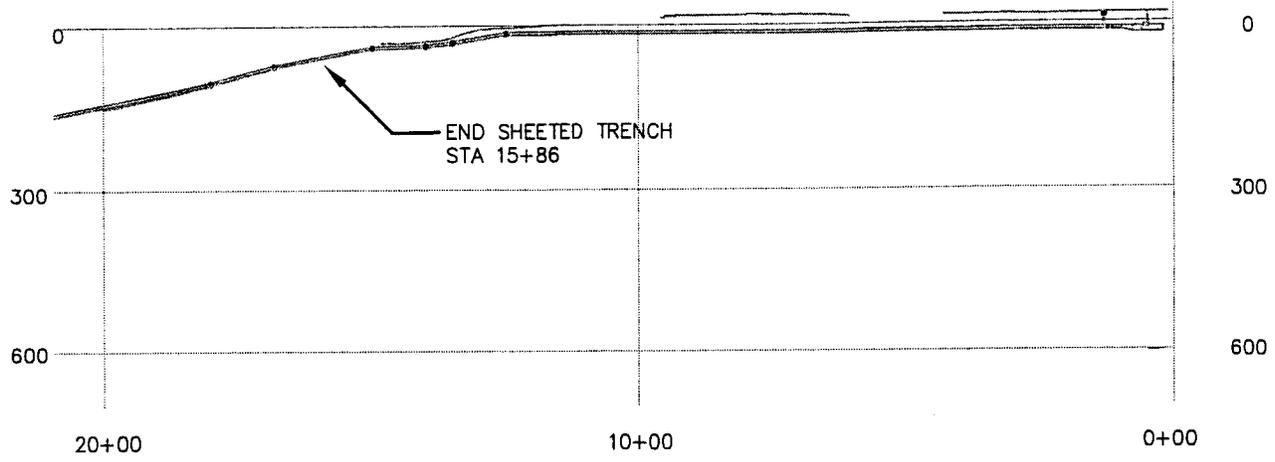
Construction activities along the open-trench alignment would have temporary impacts on 0.66 acre of intertidal and subtidal areas and would permanently displace/impact organisms within the soil and sediments excavated to create the trench, including eelgrass. Eelgrass habitat in proximity to the marine outfall alignment consists of a predominately sandy substrate with discontinuous eelgrass cover along the nearshore. Within the marine outfall corridor, potential eelgrass habitat ranges between 0 ft MLLW and -25 ft MLLW. The total area of eelgrass potentially affected by construction activity is about 0.08 acre. Eelgrass occurs within the outfall alignment corridor generally between -2 ft MLLW and -10.9 ft MLLW. The primary impact from construction of the outfall pipeline will be the temporary loss of habitat function in the immediate vicinity of the sheeted trench during construction of the outfall pipeline. These impacts are anticipated to last between construction and until transplanted eelgrass is reestablished within the eelgrass transplant areas. Additional eelgrass disturbance is anticipated along the alignment from spud driving (using temporary anchor pile to secure construction barges during outfall construction). Spoils spillage during the transfer of material to and from the barges could also temporarily affect habitat in the vicinity of the marine outfall corridor, but the potential for these impacts are anticipated to be minimized by site-specific Best Management Practices that have been developed in relation to the transfer of material to and from barges. The extent of eelgrass impacts as a result of construction, if any, will be quantified after construction during post-construction monitoring.

Following construction of the marine outfall, the disturbed areas within the nearshore will be restored to their preexisting conditions and disturbed eelgrass will be replanted.

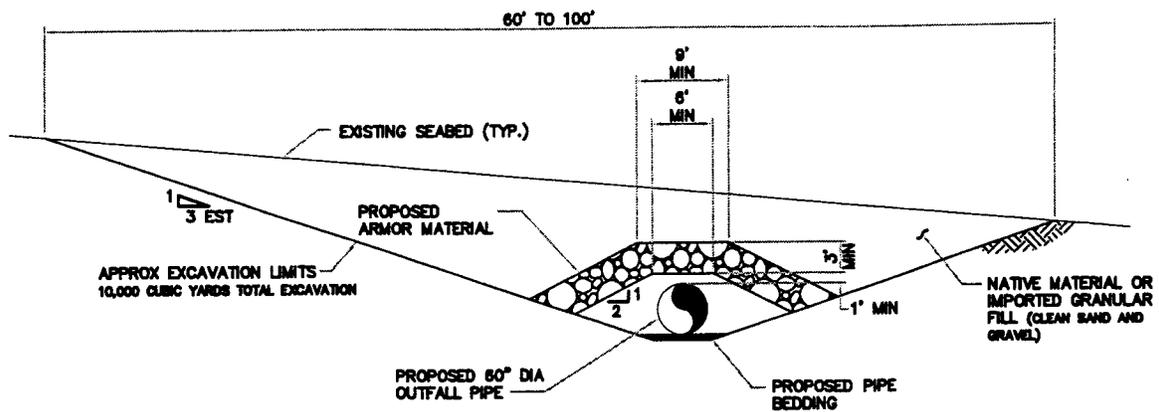
<p>PURPOSE: PROVIDE SEWAGE TREATMENT</p> <p>DATUM: NGVD - NOS</p> <p>LOCATION: VARIES</p> <p>REFERENCE: 2002-2-01289</p>	<p>OUTFALL SUMMARY</p> <p>APPLICANT:</p> <p>KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS</p> <p>201 SOUTH JACKSON ST. SUITE 530 SEATTLE, WA 98104</p>	<p>PROPOSED: SEWAGE TREATMENT PLANT, CONVEYANCE AND OUTFALL</p> <p>COUNTY: SNOHOMISH STATE: WA</p> <p>SHEET 12 OF 30</p> <p>DATE: APRIL 9, 2004</p>
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<p>PURPOSE: PROVIDE SEWAGE TREATMENT</p> <p>DATUM: NGVD - NOS</p> <p>LOCATION: T27N R3E S35 WM</p> <p>REFERENCE: 2002-2-01289</p>	<p>OUTFALL PLAN</p> <p>APPLICANT: KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS</p> <p>201 SOUTH JACKSON ST. SUITE 530 SEATTLE, WA 98104</p>	<p>PROPOSED: SEWAGE TREATMENT PLANT, CONVEYANCE AND OUTFALL</p> <p>COUNTY: SNOHOMISH STATE: WA</p> <p>SHEET 13 OF 30</p> <p>DATE: APRIL 9, 2004</p>
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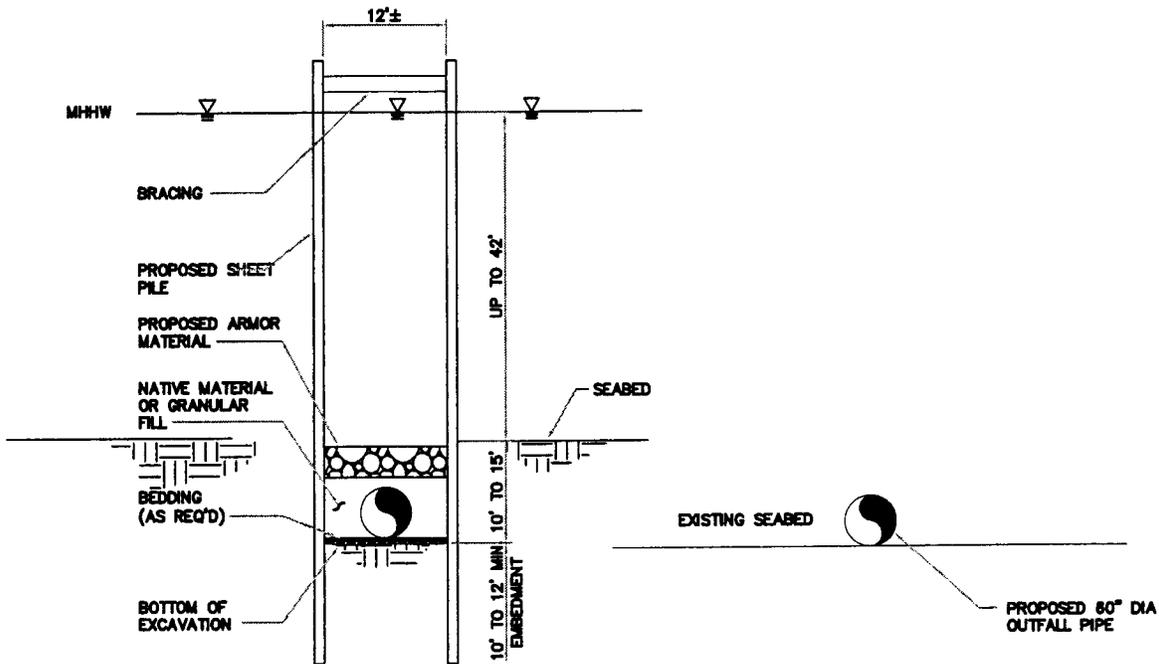


<p>PURPOSE: PROVIDE SEWAGE TREATMENT</p> <p>DATUM: NGVD - NOS</p> <p>LOCATION: T27N R3E S35 WM</p> <p>REFERENCE: 2002-2-01289</p>	<p style="text-align: center;">OUTFALL PROFILE</p> <p>APPLICANT: KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS 201 SOUTH JACKSON ST. SUITE 530 SEATTLE, WA 98104</p>	<p>PROPOSED: SEWAGE TREATMENT PLANT, CONVEYANCE AND OUTFALL</p> <p>COUNTY: SNOHOMISH STATE: WA</p> <p>SHEET 14 OF 30</p> <p>DATE: APRIL 9, 2004</p>
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NEARSHORE UNSHEETED TRENCH

SECTION A
SCALE: NTS



NEARSHORE SHEETED TRENCH

SECTION B
SCALE: 1/8"=1'-0"

OFFSHORE PORTION

SECTION C
SCALE: 1/8"=1'-0"

PURPOSE: PROVIDE
SEWAGE TREATMENT

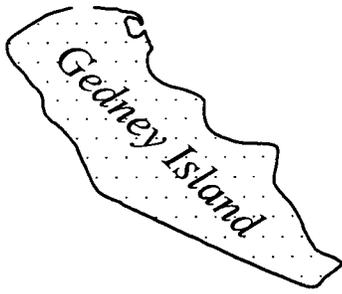
DATUM: NGVD - NOS
LOCATION:
T27N R3E S35 WM
REFERENCE:
2002-2-01289

OUTFALL
TRENCH CROSS SECTIONS

APPLICANT:
KING COUNTY DEPARTMENT OF
NATURAL RESOURCES
AND PARKS
201 SOUTH JACKSON ST.
SUITE 530
SEATTLE, WA 98104

PROPOSED: SEWAGE TREATMENT
PLANT, CONVEYANCE AND
OUTFALL

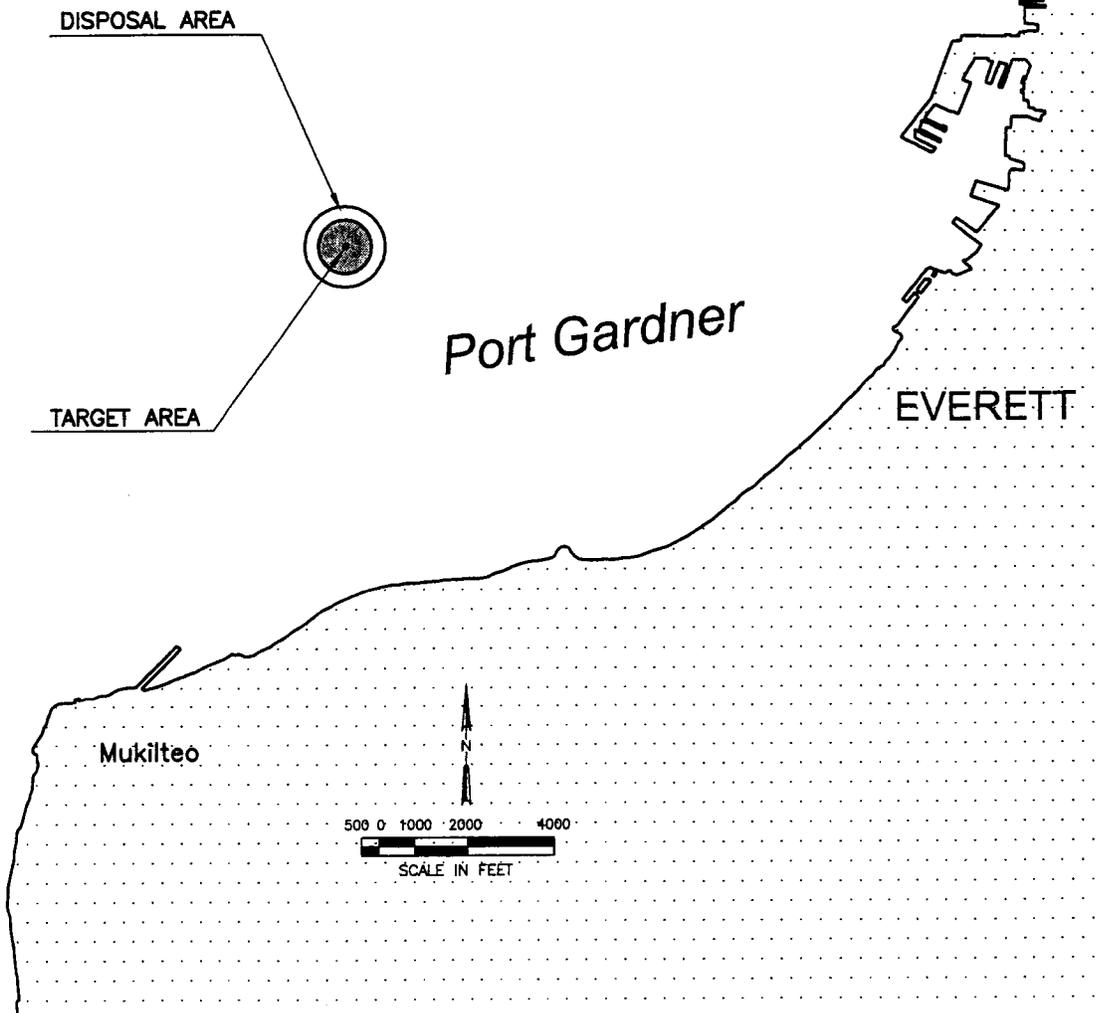
COUNTY: SNOHOMISH STATE: WA
SHEET 15 OF 30
DATE: APRIL 9, 2004



Port Gardner Disposal Site

TYPE: Nondispersive
 AREA: 318 Acres Depth: 420 ft.
 SITE DIMENSTIONS: 4200 ft by 4200 ft circular
 DISPOSAL AREA: 1800 ft Diameter Circle
 TARGET AREA: 1200 ft Dieameter Circle
 BARGE POSITIONING METHOD: GPS

Preferred Disposal Coordinates
 Lat 47° 58.86' Long 122° 16.67' NAD27
 Lat 47° 58.85' Long 122° 16.74' NAD83



PURPOSE: PROVIDE
SEWAGE TREATMENT

DATUM: NGVD - NOS

LOCATION:
AS SHOWN ON FIGURE

REFERENCE:
2002-2-01289

**PORT GARDNER PSSDA
DISPOSAL SITE**

APPLICANT:
KING COUNTY DEPARTMENT OF
NATURAL RESOURCES
AND PARKS
201 SOUTH JACKSON ST.
SUITE 530
SEATTLE, WA 98104

PROPOSED: SEWAGE TREATMENT
PLANT, CONVEYANCE AND
OUTFALL

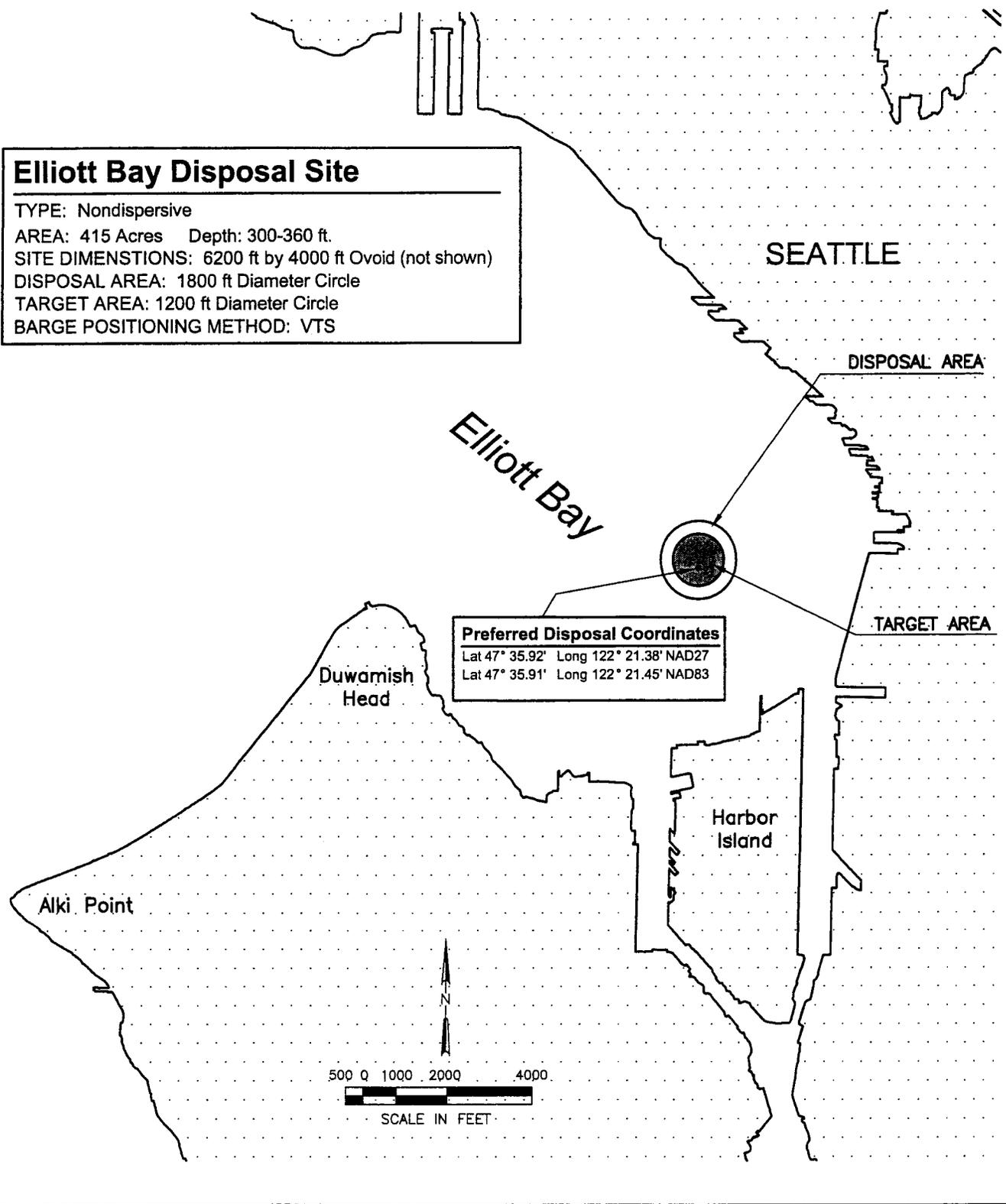
COUNTY: SNOHOMISH STATE: WA

SHEET 16 OF 30

DATE: APRIL 9, 2004

Elliott Bay Disposal Site

TYPE: Nondispersive
 AREA: 415 Acres Depth: 300-360 ft.
 SITE DIMENSTIONS: 6200 ft by 4000 ft Ovoid (not shown)
 DISPOSAL AREA: 1800 ft Diameter Circle
 TARGET AREA: 1200 ft Diameter Circle
 BARGE POSITIONING METHOD: VTS



<p>PURPOSE: PROVIDE SEWAGE TREATMENT</p> <p>DATUM: NGVD - NOS</p> <p>LOCATION: AS SHOWN ON FIGURE</p> <p>REFERENCE: 2002-2-01289</p>	<p>ELLIOTT BAY PSDDA DISPOSAL SITE</p> <p>APPLICANT: KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS 201 SOUTH JACKSON ST. SUITE 530 SEATTLE, WA 98104</p>	<p>PROPOSED: SEWAGE TREATMENT PLANT, CONVEYANCE AND OUTFALL</p> <p>COUNTY: KING STATE: WA</p> <p>SHEET 17 OF 30</p> <p>DATE: APRIL 9, 2004</p>
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PORTAL 44

A launching/working portal site will be used during construction of the conveyance system. Permanent facilities at portal sites include a drop structure and aboveground odor control facilities.

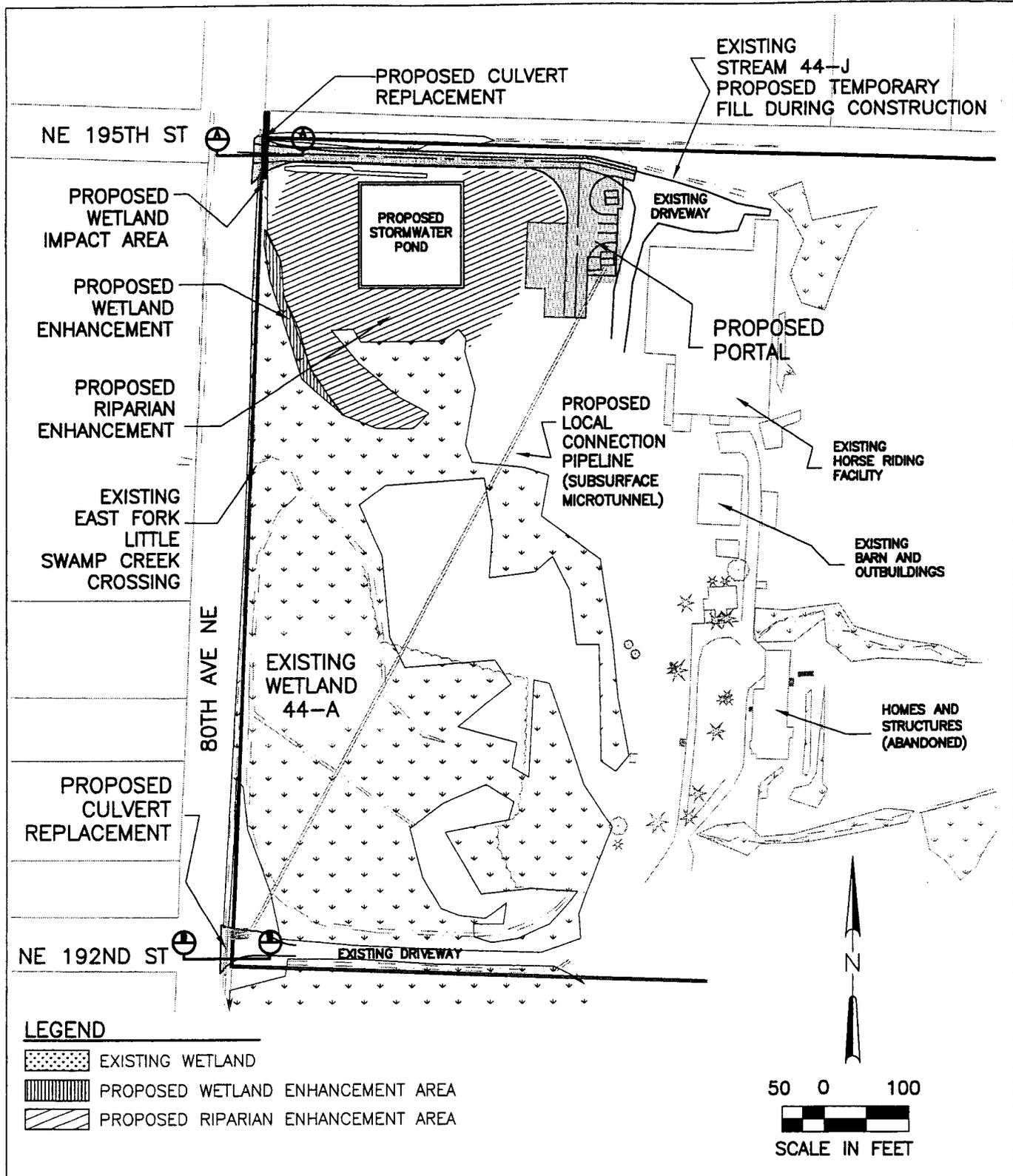
Construction at Portal 44 (North Kenmore Portal) will require widening the entrances of two existing access roads off 80th Avenue NE at the northwest and southwest corners of the property. Widening both entrances will require replacing culverts that convey the East Fork of Little Swamp Creek and Stream 44-A. Lengthening and widening the culverts under these driveways will result in filling 0.014 acre of Wetland 44-A. Construction of the portals on the site will require temporary impacts approximately 97 linear feet of Stream 44-J. This area will be restored following construction. The conveyance system improvements include the completion of a local connection between the existing King County-owned Swamp Creek trunk sewer and the new portal. Construction of the local connection includes the construction of a pipeline between a parshall flume located at the intersection of 80th Avenue NE and NE 192nd Street and the proposed influent tunnel. This pipeline will be constructed using trenchless technologies and will be located approximately 20 feet to 30 feet below the surface. No habitat impacts or loss of wetland function are anticipated as a result of the construction of this portion of the local connection.

A fish passable culvert will be installed underneath the northern driveway to convey flow from Stream 44-I to the east fork of Little Swamp Creek. This culvert will be a 64-foot-long concrete box culvert with inner dimensions of 4 feet wide by 4 feet tall. A fish passable culvert will be installed underneath the southern driveway of the site. This culvert will be a 52-foot long concrete box culvert with inner dimensions of 4 feet wide and 3 feet tall. Extending and backfilling the new culvert will require filling a portion of Stream 44-A and Wetland 44-A.

All three culverts will be designed to be fish passable according to Washington Department of Fish and Wildlife (WDFW) standards. The culverts will be countersunk and all will contain streambed substrate throughout the culverts.

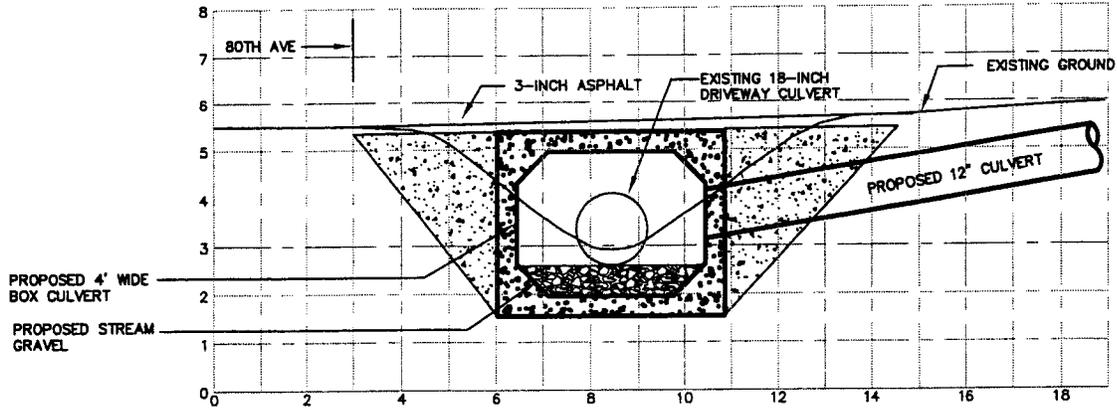
The short segment of Stream 44-J temporarily be piped during construction will be returned to original contours and the riparian corridor will be replanted following construction. The 0.014 acre of permanent impacts to low quality portions of Wetland 44-A will be compensated on-site by enhancement of existing wetland. Approximately 0.028 acre of forested wetland will be restored on the site. Additional compensatory mitigation will include the restored of upland riparian areas area that are currently degraded pasture adjacent to Wetland 44-A.

<p>PURPOSE: PROVIDE SEWAGE TREATMENT</p> <p>DATUM: NGVD - NOS</p> <p>LOCATION: VARIES</p> <p>REFERENCE: 2002-2-01289</p>	<p>PORTAL 44 SUMMARY</p> <p>APPLICANT: KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS</p> <p>201 SOUTH JACKSON ST. SUITE 530 SEATTLE, WA 98104</p>	<p>PROPOSED: SEWAGE TREATMENT PLANT, CONVEYANCE AND OUTFALL</p> <p>COUNTY: SNOHOMISH STATE: WA</p> <p>SHEET 18 OF 30</p> <p>DATE: APRIL 9, 2004</p>
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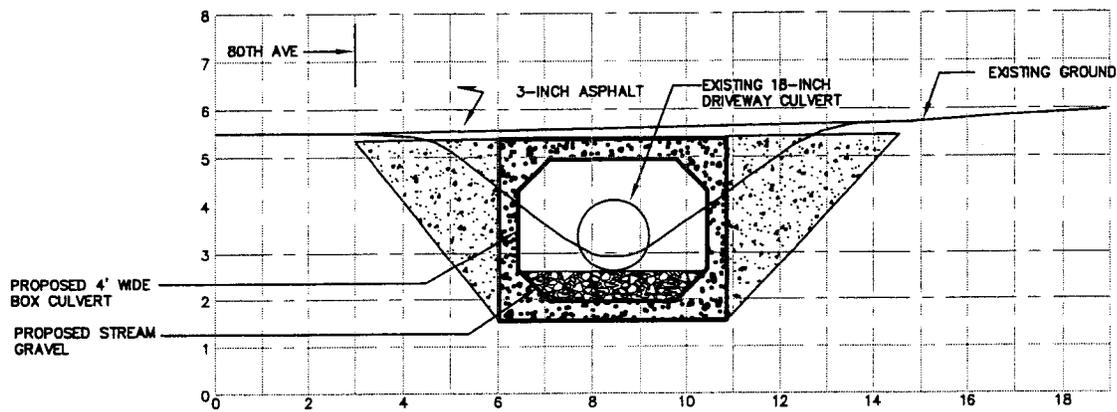
<p>PURPOSE: PROVIDE SEWAGE TREATMENT</p> <p>DATUM: NGVD - NOS</p> <p>LOCATION: T26N R4E S1 WM</p> <p>REFERENCE: 2002-2-01289</p>	<p>PORTAL 44 SITE PLAN</p> <p>APPLICANT: KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS 201 SOUTH JACKSON ST. SUITE 530 SEATTLE, WA 98104</p>	<p>PROPOSED: SEWAGE TREATMENT PLANT, CONVEYANCE AND OUTFALL</p> <p>COUNTY: KING STATE: WA</p> <p>SHEET 19 OF 30</p> <p>DATE: APRIL 9, 2004</p>
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PROPOSED NORTH
DRIVEWAY CULVERT



SECTION A
 HORIZ: 1"=4'
 VERT: 1"=4'

PROPOSED SOUTH
DRIVEWAY CULVERT



SECTION B
 HORIZ: 1"=4'
 VERT: 1"=4'

PURPOSE: PROVIDE
SEWAGE TREATMENT

DATUM: NGVD - NOS

LOCATION:
T26N R4E S1 WM

REFERENCE:
2002-2-01289

PORTAL 44 CROSS SECTIONS

APPLICANT:

KING COUNTY DEPARTMENT OF
NATURAL RESOURCES
AND PARKS
201 SOUTH JACKSON ST.
SUITE 530
SEATTLE, WA 98104

PROPOSED: SEWAGE TREATMENT
PLANT, CONVEYANCE AND
OUTFALL

COUNTY: KING

STATE: WA

SHEET 20 OF 30

DATE: APRIL 9, 2004

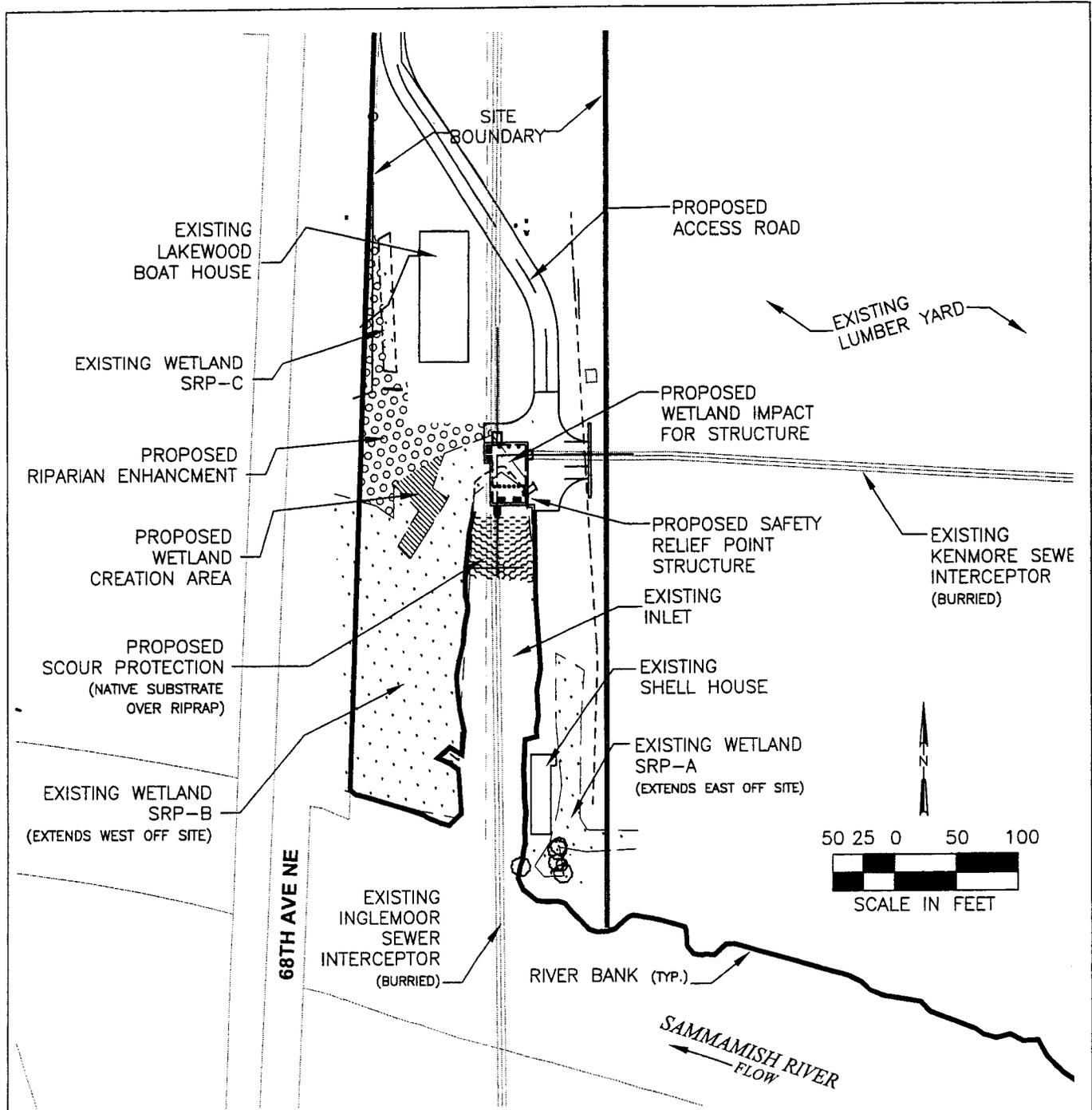
SAFETY RELIEF POINT

Approximately 80 percent of the Safety Relief Point structure will be buried or submerged below the ordinary high water mark (OHWM) elevation of the Sammamish River. As a result, construction of the Safety Relief Point will require dewatering and excavating the existing inlet south of the facility and excavating 0.024 acre of Wetland SRP-B and adjacent upland at the intersection of the existing Inglemore Interceptor and Kenmore Interceptor sewer lines. H-piles with steel sheeting will be used to dewater the inlet. Once the piles are in place and the excavated inlet has been pumped free of river water, the shoreline will be excavated for construction of the SRP. Additional excavation within the inlet will be necessary to remove existing sediment below the OHWM to construct a 2-foot deep riprap erosion protection layer on the bottom of the channel. The riprap layer will extend approximately 50 feet south from the Safety Relief Point structure. This riprap layer will consist of approximately 1-foot diameter angular rock. The layer of riprap will protect the existing channel bottom and adjacent buried existing sewer lines from scour and potential damage during a discharge event. A 1-foot layer of clean dredged materials removed from the inlet during construction will be stockpiled and replaced over the top of the riprap layer to restore the upper layer of native substrate following construction.

Approximately 0.14 acre of temporary wetland impacts along the eastern edge of Wetland SRP-B adjacent to the excavated inlet will occur during installation of the sheet piles necessary to dewater the inlet. Approximately 0.024 acre of a palustrine emergent and scrub/shrub wetland (Wetland SRP-B) will be permanently impacted from constructing the Safety Relief Point at the northern end of the excavated inlet.
Proposed Mitigation Approach

Mitigation measures will include restoring the impacted areas (0.14 acre) of Wetland SRP-B after construction. After the sheet piles are removed the original surface grades will be restored and a native forested wetland community will be planted throughout Wetland SRP-B. Permanent impacts to 0.024 acre of Wetland SRP-B will be mitigated by creating 0.036 acre of forested wetland adjacent to the existing wetland. Additional mitigation will include enhancement of remaining portion of Wetland SRP-B on-site and restoring adjacent upland riparian areas.

<p>PURPOSE: PROVIDE SEWAGE TREATMENT</p> <p>DATUM: NGVD - NOS</p> <p>LOCATION: VARIES</p> <p>REFERENCE: 2002-2-01289</p>	<p>SAFETY RELIEF POINT SUMMARY</p> <p>APPLICANT: KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS 201 SOUTH JACKSON ST. SUITE 530 SEATTLE, WA 98104</p>	<p>PROPOSED: SEWAGE TREATMENT PLANT, CONVEYANCE AND OUTFALL</p> <p>COUNTY: SNOHOMISH STATE: WA</p> <p>SHEET 21 OF 30</p> <p>DATE: APRIL 9, 2004</p>
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LEGEND

-  EXISTING WETLAND
-  PROPOSED WETLAND CREATION
-  PROPOSED RIPARIAN ENHANCEMENT

<p>PURPOSE: PROVIDE SEWAGE TREATMENT</p> <p>DATUM: NGVD - NOS</p> <p>LOCATION: T26N R4E S11 WM</p> <p>REFERENCE: 2002-2-01289</p>	<p align="center">SAFETY RELIEF POINT DETAIL PLAN</p> <p>APPLICANT: KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS 201 SOUTH JACKSON ST. SUITE 530 SEATTLE, WA 98104</p>	<p>PROPOSED: SEWAGE TREATMENT PLANT, CONVEYANCE AND OUTFALL</p> <p>COUNTY: KING STATE: WA</p> <p>SHEET 22 OF 30</p> <p>DATE: APRIL 9, 2004</p>
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BRIGHTWATER PROJECT IMPACT SUMMARY

Project Element	Water Body or Wetland Type	Impact Type	Marine (acres)	Fresh Water (acres)	Impact Duration	Mitigation Summary
Treatment Plant	Wetland B	Construction for Habitat Mitigation (diversion of unnamed creek)	n/a	0.22	Permanent	Construct new stream channel. Buffer enhancement
	Wetland C.D, and E	Construction for Habitat Mitigation	n/a	3.11	Temporary	Riparian and wetland enhancements
	Wetland C	Construction of flow diversion pipe	n/a	0.12	Temporary	Restore disturbed area
	Wetland E	Fill for Habitat Enhancement/Construction of new open water pond.	n/a	0.24	Permanent	Construct new wetland.
	Howell Creek	Fill in old stream channel	n/a	0.013	Permanent	Construct new stream channel.
	Stormwater Conveyance Channels - Open	Fill for construction of treatment plant facilities	n/a	0.09 (1,800 l.f)	Permanent	Construct new stream channel. Buffer enhancement
Portal 19	Wetland 19-A	n/a	n/a	n/a	n/a	n/a
Portal 5	None present	n/a	n/a	n/a	n/a	n/a
Portal 44	Palustrine Wetland (Wetland 44-A)	Site access road improvements.	n/a	0.014	Permanent	Enhance existing wetlands.
	Stream 44-J	Portal Construction	n/a	0.004 (97 l.f.)	Temporary	Restore disturbed areas
Portal 41	None present	n/a	n/a	n/a	n/a	n/a
Portal 11	None present	n/a	n/a	n/a	n/a	n/a
Outfall	Puget Sound	Trenching for outfall pipe waterward of MHW line.	0.66 acre shallow nearshore area	n/a	Temporary	Restore disturbed areas
Safety Relief Point	Wetland SRP-B	Construct SRP structure	n/a	0.14	Temporary	Restore disturbed area
	Wetland SRP-B	Construction at northern end of excavated inlet	n/a	0.024	Permanent	Construct new wetland.
	Sammamish River	SRP and riprap scour pad	n/a	0.11	Permanent	
Total Impact Area:			0.66 acres	4.081 acres		

PURPOSE: PROVIDE SEWAGE TREATMENT

DATUM: NGVD - NOS

LOCATION: VARIES

REFERENCE: 2002-2-01289

PROJECT IMPACT SUMMARY

APPLICANT:
KING COUNTY DEPARTMENT OF
NATURAL RESOURCES
AND PARKS
201 SOUTH JACKSON ST.
SUITE 530
SEATTLE, WA 98104

PROPOSED: SEWAGE TREATMENT PLANT, CONVEYANCE AND OUTFALL

COUNTY: SNOHOMISH STATE: WA

SHEET 23 OF 30

DATE: APRIL 9, 2004

DESCRIPTION OF MITIGATION ELEMENTS

Seven types of habitat mitigation will be undertaken for this project in relation to impacts to wetlands and other waters of the US. These include: 1) restoration of intertidal and subtidal marine habitats; 2) riparian wetland restoration; 3) wetland creation; 4) wetland enhancement; 5) open water wetland creation; 6) upland riparian enhancement; and 7) stream channel relocation/reconstruction. These mitigation elements are briefly discussed below.

Restoration of Marine Habitats

Restoration of marine habitats will include the restoring upper layers of substrate and replanting disturbed eelgrass beds with transplants from nearby donor beds in accordance with a site-specific eelgrass restoration plan. To maximize potential eelgrass recovery within the trench, substrate will be restored as soon as possible by replacing the upper 1- to 3-feet of trench backfill material with the uppermost layer sediment removed during trenching. This upper layer will be stockpiled during excavation. Native substrate will provide sediment characteristics (e.g., grain size, particle shape, mineral content) similar to pre construction characteristics, which were known to support eelgrass.

To mitigate for the temporal loss of eelgrass habitat and impacts to marine areas as a result of outfall construction, King County is proposing off-site mitigation in the form of derelict fishing gear removal. The removal of derelict fishing gear is proposed to compensate for short-term habitat loss and impaired site function. Derelict fishing gear negatively affects habitat functions in nearshore areas by obstructing fish, mammal, bird, and invertebrate access to habitat, contributing to sedimentation and/or scouring, and has been shown to negatively impact eelgrass growth. Removal of derelict gear provides numerous benefits, including an immediate reduction in mortality rates of fish that become entangled in the gear. A program to address derelict fishing gear is currently sponsored by Washington Department of Ecology.

Riparian Wetland Restoration

This mitigation type is associated only with the Safety Relief Point construction on the Safety Relief Point site. Construction will temporarily impact riparian wetland during construction. Following construction, the original grades will be restored. Native riparian forest vegetation will be replanted in disturbed areas.

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Wetland Creation

This mitigation type is associated only the Treatment Plant and the Safety Relief Point. Wetland creation is proposed to mitigate for the loss (fill) of existing wetland during construction and to provide continuity between existing wetlands to increase the function of the entire wetland area on both sites. Wetland creation will be achieved by excavating the ground surface adjacent to the existing wetlands to an elevation approximately one-foot below the water table and backfilling this area with approximately one-foot of native topsoil salvaged from the site or import topsoil amended with organic matter. This will allow for saturated soil conditions that approximate those occurring in the adjacent wetland. The new wetland area will be planted with wetland vegetation selected for each wetland creation area based on hydrologic conditions, aspect, and the composition of surrounding vegetation.

Wetland Enhancement

This mitigation type is associated the Treatment Plant Site, Portal 44, and the Safety Relief Point sites. Wetland enhancement is proposed to offset temporal impacts to wetlands or to replace wetland function where only small areas of loss will occur. Wetland enhancement will occur in areas that meet the current jurisdictional definition of wetlands, but that do not provide significant functions as a result of past modifications. On both the treatment plant site and on Portal 44, significant portions of the on-site wetlands have been cleared and/or partially filled and contain only emergent vegetation. Portions of existing low quality emergent wetlands will be replanted with native plant materials to establish a mix of wetland habitat types (forest, scrub-shrub, an emergent wetlands). Prior to planting, the upper foot of wetland soil will be removed to eliminate the invasive emergent wetland vegetation that presently dominates onsite wetlands (primarily reed canarygrass). Much of this soil will be fill material. Replanting will include a mix of species common to the site and other species native to the area to add diversity.

Open Water Wetland Creation

This mitigation type is associated only with the treatment plant site. Open water wetlands will be excavated to a depth sufficient to intercept near-surface groundwater. Restoration of open water wetland habitat will include excavation within existing uplands to remove existing surface material down to either native wetland soils and/or the existing water table. Much of the mitigation area where this will be constructed is presently covered in one to three feet of fill material. In areas where excavation does not result in the restoration of native soils, an additional foot of soil will be removed and replaced with topsoil amended with organic matter. Open water areas will be seeded

<p>PURPOSE: PROVIDE SEWAGE TREATMENT</p> <p>DATUM: NGVD - NOS</p> <p>LOCATION: VARIES</p> <p>REFERENCE: 2002-2-01289</p>	<p>MITIGATION SUMMARY (CONT).</p> <p>APPLICANT: KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS 201 SOUTH JACKSON ST. SUITE 530 SEATTLE, WA 98104</p>	<p>PROPOSED: SEWAGE TREATMENT PLANT, CONVEYANCE AND OUTFALL</p> <p>COUNTY: SNOHOMISH STATE: WA</p> <p>SHEET 25 OF 30</p> <p>DATE: APRIL 9, 2004</p>
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with both deep water and shallow water emergent species. The bottom of the wetland will be contoured to provide a variety of water regimes, but will not contain isolated depressions that may strand fish during seasonal low-water periods. Log piles, single logs, and/or root wads will be installed throughout the open water area to provide cover for fish and wildlife.

Upland Riparian Forest Enhancement

This mitigation type is associated with the treatment plant site, Portal 44, and the Safety Relief Point. Disturbed areas within the buffer area of streams and wetlands (either retained, reconstructed, or relocated) will be replanted with native plant materials to establish a forested community. In areas of the site that have been previously developed, the soil will be amended to promote vigorous plant growth. Replanting will include a mix of species common to the site and other species native to the area to add diversity. The plant mix will include common stream-side or wetland fringe plant types with the inner riparian zone (approximately 25 feet) and will transition to common forest-type plantings throughout the outer riparian zones. Riparian areas will contain a mix of deciduous and coniferous species common to lowland areas of the Puget Sound region.

Stream Channel Restoration/Relocation

This mitigation type is associated with the treatment plant site and Portal 44. Three degraded streams on the treatment plant site and one channelized stream on Portal 44 will be affected by construction of facilities or otherwise impacted by proposed habitat mitigation. Stream enhancement and relocation will occur by reconstructing a new or replacement stream channel designed to convey both base flow and anticipated storm flows. Native substrates and habitat features (large woody debris, stream rocks, root wads, etc.) will be installed in newly constructed channels to provide increased habitat opportunities following construction. Riparian areas adjacent to the restored streams will be replanted with riparian upland or riparian wetland species depending on the adjacent habitat type. Riparian plantings will contain a mix of deciduous and coniferous species common to lowland areas of the Puget Sound region.

<p>PURPOSE: PROVIDE SEWAGE TREATMENT</p> <p>DATUM: NGVD - NOS</p> <p>LOCATION: VARIES</p> <p>REFERENCE: 2002-2-01289</p>	<p>MITIGATION SUMMARY (CONT).</p> <p>APPLICANT: KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS 201 SOUTH JACKSON ST. SUITE 530 SEATTLE, WA 98104</p>	<p>PROPOSED: SEWAGE TREATMENT PLANT, CONVEYANCE AND OUTFALL</p> <p>COUNTY: SNOHOMISH STATE: WA</p> <p>SHEET 26 OF 30</p> <p>DATE: APRIL 9, 2004</p>
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Adjacent Property Owners

Allen L. Curtis
21211 Highway 9
Woodinville, WA 98072

Andrew Knorr
PO Box 13519
Arlington, TX 76094

Anmarco (Gary Merlino)
9125 - 10th Avenue S
Seattle, WA 98108

Ballinger Village LP
PO Box 52850
Bellevue, WA 98015

Bear Creek Grange
18811 - 43rd Avenue SE
Bothell, WA 98012

BNSF
PO Box 961089
Fort Worth, TX 76161

Bonnelyn M. Holleman
3546 Jordan Road
Oakland, CA 94619

C. Allen & Virginia G. Smith
PO Box 904
Woodinville, WA 98072

Charlene Moore
PO Box 1926
Woodinville, WA 98072

Charles J. Gehlen Trust
2825 Colby Avenue
Everett, WA 98201

Chen-Wei Fu, et al.
18228 60th Avenue NE
Kenmore, WA 98028

Chevron USA Inc.
PO Box 285
Houston, TX 77001

Claudia Brott Fast
16214 - 167th Avenue NE
Woodinville, WA 98072

Clay Elgie Gibson
PO Box 1663
Woodinville, WA 98072

Cliff English
c/o Richard W. Pierson
Kingman, Peabody, etc.
505 Madison Street, #300
Seattle, WA 98104
Curtis Qualified Residence Trust 1
21811 Highway 9
Woodinville, WA 98072

Clifton & Barbara House
PO Box 664
Woodinville, WA 98072

Creekside Investment Group
12728 Bothell-Everett Hwy.
Everett, WA 98208

D.L. & C.L. Fitzpatrick
PO Box 270
Woodinville, WA 98072

Daniel & Paul Gualtieri
19057 85th Avenue NE
Bothell, WA 98011

Daniel S. & Hope E. Briggs
PO Box 60215
Richmond Beach, WA 98160

Daniel W. Boone
22106 SR 9 SE
Woodinville, WA 98072

David C. Falkenberg
6722 NE Bothell Way
Kenmore, WA 98028

David W. & Cynthia Pridemore
2621 NW 205th Street
Shoreline, WA 98177

Deborah H. Nicely
22212 SR 9 SE
Woodinville, WA 98072

Doris L. Christensen
6300 228th SE
Woodinville, WA 98072

Dorothy M. Johnston Living Trust
22332 SR 9 SE
Woodinville, WA 98072

Downstream Inc.
10559 158th Avenue NE
Redmond, WA 98052

Edward A. & Morgan Stephenson
23532 71st Drive SE
Woodinville, WA 98072

Eldon & Marlene Berg
7850 NE 195th Street
Kenmore, WA 98028

200201289

Proposed: Sewage treatment
plant, conveyance, outfall
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Adjacent Property Owners

Klokstad Properties II LLC
18723 40th Place NE
Seattle, WA 98155

Lake City Neighborhood Church
PO Box 2101
Bothell, WA 98041

Lakha Investments
155-108th Avenue NE #210
Bellevue, WA 98004

Lincoln Investments LLC
19235 NE 149th Street
Woodinville, WA 98072

Lydig, McFarland & Carstens
Philip Carstens, Esq.
717 West Sprague Ave, #1600
Spokane, WA 99201

Morrison-Kenmore Properties
1001 4th Avenue #2900
Seattle, WA 98154

Northshore SD #417
9816 NE 183rd Street
Bothell, WA 98011

Parker Outdoor Inc.
PO Box 831
Monroe, WA 98272

Paterno Z. Zante
23030 SR 9 SE
Woodinville, WA 98072

Pioneer Towing Co.
PO Box 82298
Kenmore, WA 98028

Quadrant Corporation
PO Box 130
Bellevue, WA 98009

Randall N. Kesler
19309 80th Avenue NE
Bothell, WA 98028

Rebecca Rijo-Berger
22620 SR 9 SE
Woodinville, WA 98072

Reuben J. & Judy A. Smith, Jr.
23004 SR 9 SE
Woodinville, WA 98072

Richard & Janice Rennebohm
c/o John Paul Turner, Esq.
Rodgers Deutsch & Turner PLLC
Three Lake Bellevue Drive, #100
Bellevue, WA 98005

Richard Albert
22914 SR 9 SE
Woodinville, WA 98072

Richard James Felzer
19225 80th Avenue NE
Bothell, WA 98028

Robert Buchmayr & Bravo Tierna
18770 Ridgefield Road NW
Shoreline, WA 98177

Ruth J. Brittan
18555 26th Avenue NE
Seattle, WA 98155

Scandia Business Park LLC
8502 Maltby Road
Woodinville, WA 98072

Schnitzer Northwest
2353 130th Avenue NE #100
Bellevue, WA 98005

Seawest Investment Associates LLC
Matt Aatai
Atcon Plaza
13120 NE 70th Place, Suite 1
Kirkland, WA 98033

Shervin & Dean Churchill
11210 NE 174th Street
Bothell, WA 98011

Shurgard Storage Centers
PO Box 900933
Seattle, WA 98109

State Farm Mutual Automobile
Insurance Company
1 State Farm Plaza
Bloomington, IL 61710

Stejun Investments, Inc.
11611 NE 195th Street
Bothell, WA 98011

Strathy Bros Inc
PO Box 28
Kenmore, WA 98028

The Townsend-Altizer, Llc
PO Box 958
Toledo, WA 98591

Tom Thompson
2545 SW Terwilliger Blvd.
Portland, OR 97201

U-Haul Real Estate Company
PO Box 29046
Phoenix, AZ 85038

200201289

Proposed: Sewage treatment
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Adjacent Property Owners

Eric & Lezlie Hanson
7401 229th Place SE
Woodinville, WA 98072

Evelyn Catalina Corpus
1614 NE 199th Court
Seattle, WA 98155

Fitz Auto Parts, Inc./
Legacy International
PO Box 270
Woodinville, WA 98072

Fitzpatrick/Fitzpatrick
PO Box 270
Woodinville, WA 98072

For-D Inc
PO Box 100
Woodinville, WA 98072

Gall Landau Young Construction
Co.
PO Box 6728
Bellevue, WA 98008

Glen A. & Darlene Jones, Jr.
23212 75th Avenue SE
Woodinville, WA 98072

Greg L. Brower
22224 SR 9 SE
Woodinville, WA 98072

Gregory & Lafon Jantz
24224 116th Avenue West
Edmonds, WA 98020

Inglewood Residential
7911 NE 195th Street
Kenmore, WA 98028

Ivan & Ruby Mohar
22006 SR 9 SE
Woodinville, WA 98072

Jacqueline Ingram
2314 NW 100th Street
Seattle, WA 98177

James C. Green
19065 85th Avenue NE
Bothell, WA 98011

James F. Green
7414 114th Avenue SE
Renton, WA 98056

Jerry M. & Melissa M. Gallegos
7402 229th Place SE
Woodinville, WA 98072

Jimmie W. & Genevieve Davis
19035 84th Avenue NE
Bothell, WA 98011

Joan Kramer
22922 SR 9 SE
Woodinville, WA 98072

John & Carol Lindner
22530 SR 9 SE
Woodinville, WA 98072

John Blomberg
Michael & Cheryl Durbin
20235 125th Avenue NE
Bothell, WA 98011

John M. & Joanne V. Dailey
30753 Ganado Drive
Palos Verdes Estates, CA 90275

John Tompkins
23326 75th Avenue SE
Woodinville, WA 98072

Karen E. Briggs
15337 Ashworth Place North
Seattle, WA

Kennedy-Evergreen Holdings LLC
c/o Richard W. Pierson
Kingman, Peabody, etc.
505 Madison Street, #300
Seattle, WA 98104

Kenneth A. & Marcia M. Bartlett
3730 Magnolia Blvd. W
Seattle, WA 98199

Kenneth G. Crane
7227 Foster Slough Road
Snohomish, WA 98290

Kimi Tanaka
11448 Rainier Avenue South
Seattle, WA 98178

King County
500 4th Avenue
Seattle, WA 98104

King County (formerly Dist #417)
Alton Gaskill
King County DNR KSC-NR-0503
201 South Jackson Street
Seattle, WA 98104-3855

King County (formerly OPUS NW)
Alton Gaskill
King County DNR KSC-NR-0503
201 South Jackson Street
Seattle, WA 98104-3855

King County (formerly NG
Partnership)
Alton Gaskill, King County DNR
201 S. Jackson St., KSC-NR-0503
Seattle, WA 98104-3855

Proposed: Sewage treatment
plant, conveyance, outfall
County: King State: WA
Applic By: King County
Sheet: 29 of 30
Date: Apr 9, 2009

Adjacent Property Owners

University of Washington
1326 5th Avenue #418
Seattle, WA 98101

Virginia G. Smith
PO Box 904
Woodinville, WA 98072

VRJ LLC
Gerard (Gerry) Tiberio
Londo Tiberio Construction Inc.
10900 NE 8th Street, #900
Bellevue, WA 98004

Washington Tree Service
20057 Ballinger Way NE
Shoreline, WA 98155

Waterman Properties LP
c/o John Paul Turner, Esq.
Rodgers Deutsch & Turner PLLC
Three Lake Bellevue Drive, #100
Bellevue, WA 98005

William J. Hurley
19233 80th Avenue NE
Bothell, WA 98028

William R. Quist
23308 75th Avenue SE
Woodinville, WA 98072

Woodinville North One LLC
c/o S. Michael Rodgers, Esq.
Rodgers Deutsch & Turner PLLC
Three Lake Bellevue Drive, #100
Bellevue, WA 98005

WSDOT
PO Box 330310
Seattle, WA 98133

Wyndham Garden
1950 N. Stemmon Fwy #6001
Dallas, TX 75207

YMCA of Greater Seattle
909 4th Avenue
Seattle, WA 98104

The Heirs and Devises of William L. Vereschagin, deceased;
John Baumann, Inc., a Washington corporation;
Michael Pattison Brown and Pamela Swenson Brown;
William R. Rothman and Yu S. Rothman;
Karen E. Briggs, as her separate estate; and
Kenneth V. Noreen and Pearl S. Noreen
Owned by property owners in adjacent plat - no separate addresses for this parcel

200201289

Proposed: Sewage treatment
plant, conveyance, outfall
County: King State: WA.
Applic By: King County
Sheet: 30 of 30
Date: Apr 9, 2004



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
P.O. Box 47600 • Olympia, Washington 98504-7600
(360) 407-6000 • TDD Only (Hearing Impaired) (360) 407-6006

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

Notice of Application for
Water Quality Certification
and for
Certification of Consistency with the
Washington Coastal Zone Management Program

Date: 05/24/04

Notice is hereby given that a request has been filed with the Department of Ecology, pursuant to the requirements of Section 401 of the federal Clean Water Act of 1977 (PL 95-217), to certify that the project described in the U.S. Army Corps of Engineers Public Notice No. 200201289 will comply with the Sections 301, 302, 303, 306, and 307 of the Act, and with applicable provisions of State and Federal water pollution control laws.

Notice is hereby given that a request has been filed with the Department of Ecology, pursuant to the requirements of Section 307© of the Federal Coastal Zone Management Act of 1972 (16 U.S.C. 1451), to certify that the above referenced project will comply with the Washington State Coastal Zone Management Program and that the project will be conducted in a manner consistent with that program.

Any person desiring to present views on the project pertaining to the project on either or both (1) compliance with water pollution control laws or (2) the project's compliance or consistency with the Washington State Coastal Zone Management Program may do so by providing written comments within 30 days of the above publication date to:

Federal Permit Coordinator
Department of Ecology
SEA Program
Post Office Box 47600
Olympia, Washington 98504-7600