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: Kate Stenberg, Project Manager

Public Notice Date: December 9, 2004
Expiration Date: January 9, 2005
Reference: 200401089
Name: Washington State Dept. of Transportation

Interested parties are hereby notified that an application has been received for a Department of the Army (DA) permit in accordance with Section 404 of the Clean Water Act for certain work described below and shown on the enclosed drawings.

APPLICANT - Washington State Department of Transportation
Mr. Ben Brown
Post Office Box 330310
Seattle, Washington 98133-9710
Telephone: (206) 440-4528

LOCATION - In wetlands adjacent to Little Bear Creek, tributary to the Sammamish River, near the City of Woodinville, in Snohomish County, Washington.

WORK - The project to widen State Route (SR) 9 between SR 522 and SR 524, add turning lanes and other safety improvements will place fill in 1.60 acres of wetlands (22 impacted wetlands), 0.07 acres of streams (7 stream crossings), and 0.05 acres of jurisdictional ditches. Please note that the jurisdictional determination for roadside ditches dug in uplands is not finalized and this acreage may vary slightly. The wetland impacts consist of 0.34 acres of palustrine-forested wetland, 0.33 acres of palustrine scrub/shrub wetlands, and 0.93 acres of palustrine emergent wetland. There will be up to 0.89 acres of temporary wetland impacts and 0.05 acres of temporary stream impacts. Wetland and ditch impacts occur from roadway widening and storm water treatment facility construction. Access to the Whistle Creek mitigation site may temporarily impact an additional 0.15 acres of wetlands. An asymmetrical widening design has been selected to avoid and minimize impacts to Little Bear Creek and wetlands where possible. In addition, retaining walls and ecology embankments are proposed in several locations to further avoid and minimize impacts to wetlands and streams.

All streams within the project area are tributary to Little Bear Creek. There are no proposed direct impacts to Little Bear Creek. The culverts that convey Cutthroat Creek and Whistle Creek under SR 9 and the culvert that conveys Great Dane Creek under a private access road will each be replaced with culverts that are both longer and greater in diameter. The culverts that convey 233rd Creek and Unnamed Creek will be lengthened, but not enlarged, since these creeks are proposed to be relocated by the Brightwater Wastewater Treatment Facility (Brightwater) and fish passable structures under SR 9 will be provided at the new crossing locations by the Brightwater facility.

PURPOSE – To increase capacity in response to existing congestion and improve safety within the SR 9 corridor.

ADDITIONAL INFORMATION – The Cross Valley Water District (District) has evaluated potential impacts to their sole source aquifer and has determined that there should be no significant impacts to the aquifer or the District's Wellhead Protection Area from the proposed project.

The proposed Brightwater facility has applied for a DA permit in accordance with Section 10 of the Rivers and Harbors Act of March 3, 1899, and Section 404 of the Clean Water Act. This application, reference number 200201289, is currently under review.

MITIGATION – The proposed mitigation includes the creation of 2.02 acres of forested, scrub/shrub, and emergent wetlands at the Howell Creek mitigation site. This mitigation site was constructed in 1997 to provide compensatory mitigation for Stages 1A, 1B, 2, and 3 of the SR 9, SR 522 to the 212th project and for the SR 522 Paradise Lake Road project. The mitigation site has been moderately successful and appears to have created 2.72 acres of wetlands. However, not all of the performance standards and/or proposed functions have been successfully achieved. Therefore, the current proposal is to modify the original design, replant certain portions of the site, and continue to monitor and improve the site, in an effort to achieve the mitigation goals. The U.S. Army Corps of Engineers (Corps) will be evaluating the proposed mitigation plan to determine if it will provide adequate mitigation for project specific impacts.

ENDANGERED SPECIES - The Endangered Species Act (ESA) of 1973 requires assessment of potential impacts to listed and proposed species. The Puget Sound chinook (*Oncorhynchus tshawytscha*), threatened, and Puget Sound bull trout (*Salvelinus confluentus*), threatened, have been listed in the state of Washington, (State) and occur in the proposed project area. The Federal Highway Administration (FHWA) as the lead agency for ESA consultation has consulted with the National Marine Fisheries Service (NMFS) and the U.S. Fish and Wildlife Service (USFWS) as required under Section 7 of the ESA. They have determined that the project may affect, but is not likely to adversely affect listed species. The USFWS concurred on December 9, 2003 (Reference number: USFWS 1-3-03-1957) and NMFS concurred on December 12, 2003 (Reference number: 2003/01053). However, the project impacts have increased since the initial consultation, therefore, FHWA has re-initiated consultation with the Services.

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 salmonids occurs in the project area. The FHWA as the lead agency for a determination regarding EFH has consulted with the NMFS. They have determined that the project may adversely affect EFH species. On December 12, 2003, NMFS concurred with this determination (Reference number: 2003/01053). However, the project impacts have increased since the initial consultation, therefore, FHWA has re-initiated consultation with the NMFS.

CULTURAL RESOURCES - The FHWA as the lead agency for determining compliance with Section 106 of the National Historic Preservation Act has conducted a cultural resource survey and determined that no resources eligible for listing in the National Register of Historic Places will be affected. The State Historic Preservation Office concurred with this determination on October 29, 2004 (Log Number 060403-04-FHWA.) The project has been designed to avoid any impacts to the Bear Creek Cemetery.

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.

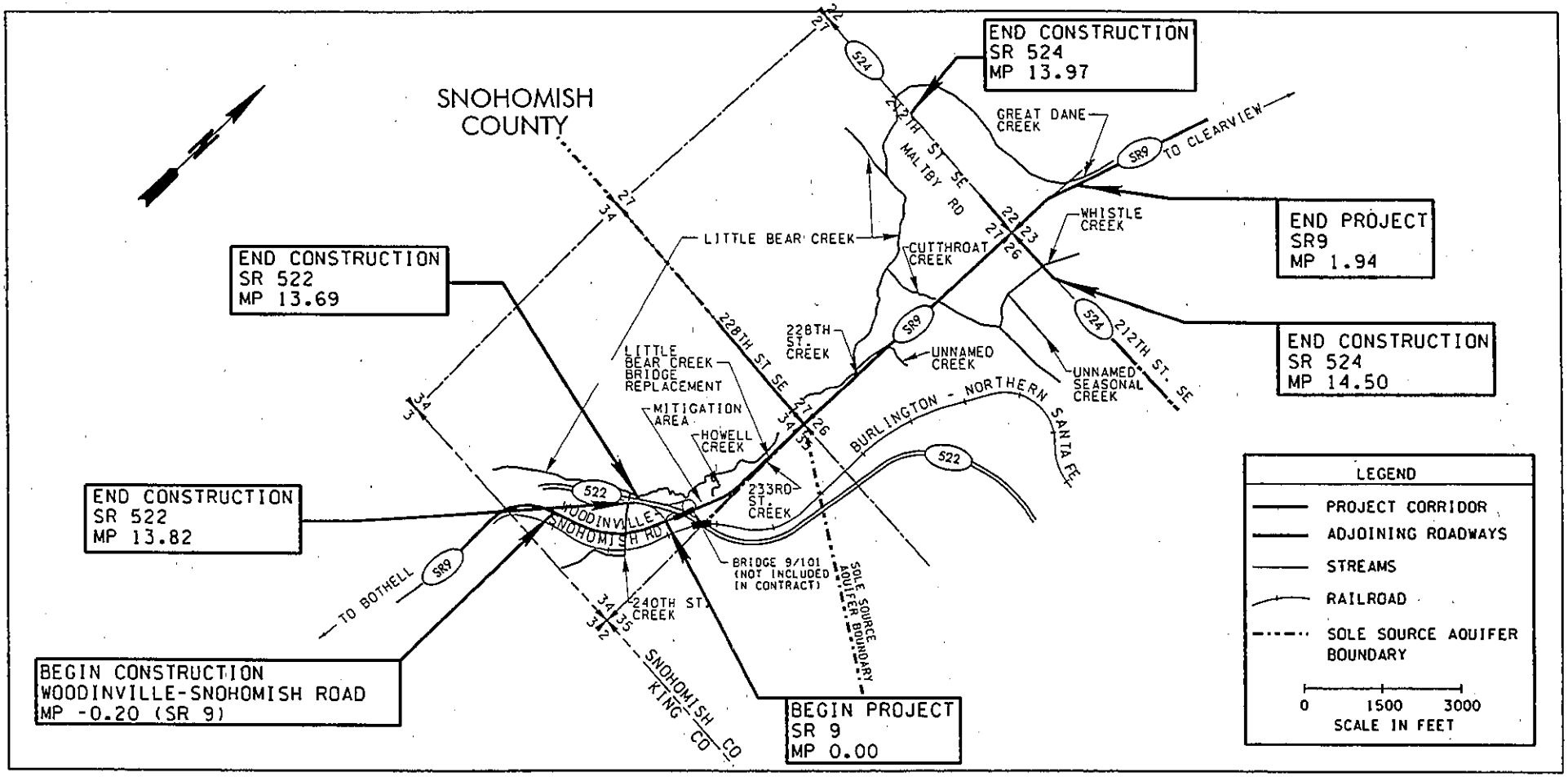
The evaluation of the impact of the activity on the public interest will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act. This evaluation will include an alternatives analysis.

ADDITIONAL EVALUATION - The State of Washington (State) 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.

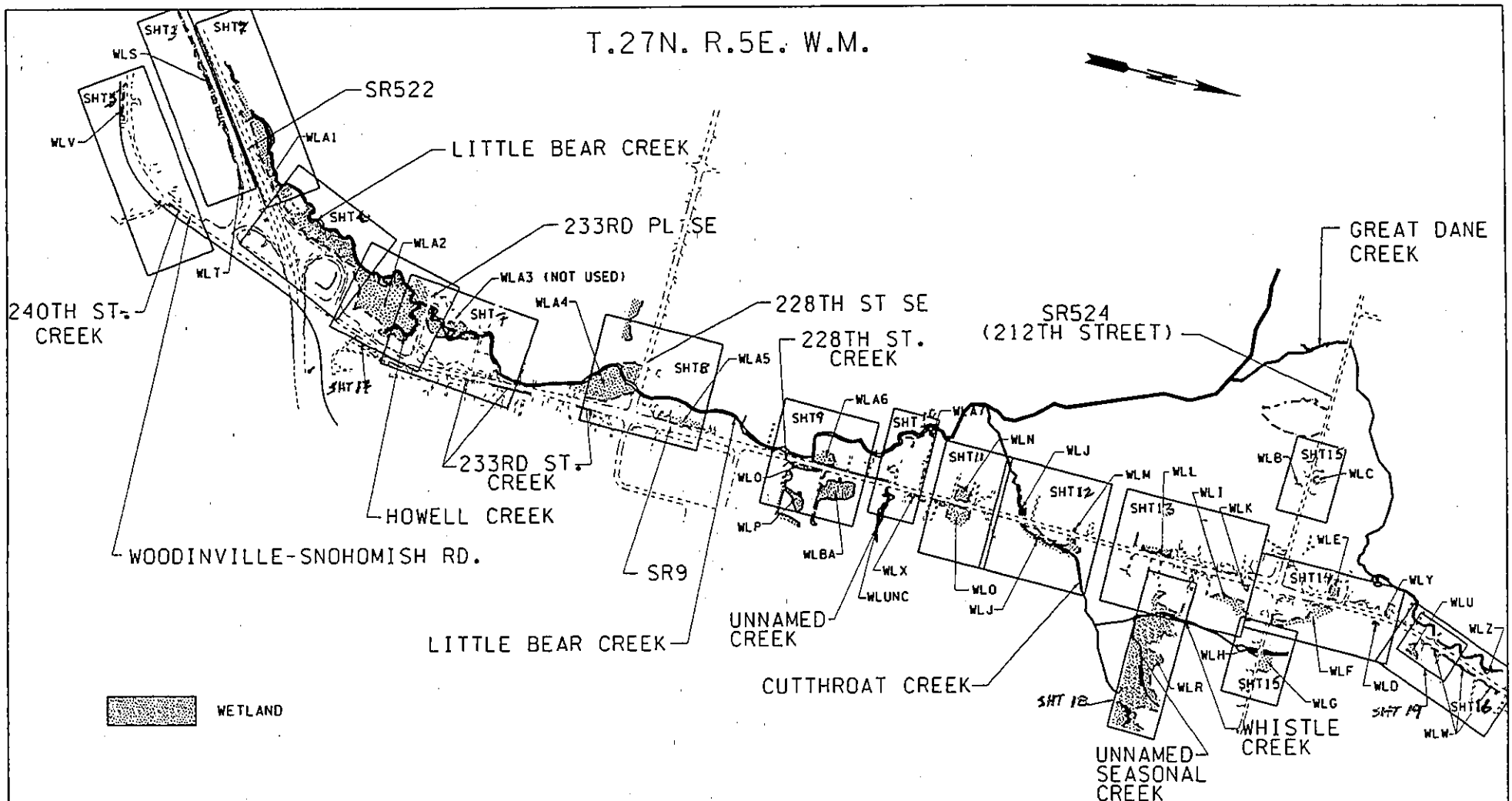
COMMENT AND REVIEW PERIOD – Conventional mail or e-mail comments on this public notice will be accepted and made part of the record and will be considered in determining whether it would be in the public interest to authorize this proposal. In order to be accepted, e-mail comments must originate from the author's 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 Kathryn.J.Stenberg@nws02.usace.army.mil. Conventional mail comments should be sent to U.S. Army Corps of Engineers, Regulatory Branch, Post Office Box 3755, Seattle, Washington 98124-3755. 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:

Washington State Dept. of Transportation, 200401089

Encl
Drawings (33)



PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW	VICINITY MAP	LITTLE BEAR CREEK WATERSHED
PROJECT: SR 9, SR 522 TO 212TH ST.	DATUM: VERTICAL: NAVD88 HORIZONTAL: NAD1983/91	IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK
APPLICANT: WSDOT	LONGITUDE: 122° 8′ 35″ WEST LATITUDE: 47° 46′ 57″ NORTH	NEAR: CITY OF WOODINVILLE
REFERENCE: 200401089	BASIN: LAKE WASHINGTON	IN: SNOHOMISH COUNTY, WA
		SHEET 1 OF 33 NOVEMBER 2004



PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW

PROJECT: SR 9, SR 522 TO 212TH ST.

APPLICANT: WSDOT

REFERENCE: 200401089

KEY PLAN

DATUM: VERTICAL: NAVD88
HORIZONTAL: NAD1983/91

LONGITUDE: 122° 8' 35" WEST
LATITUDE: 47° 46' 57" NORTH

0 600 1200
SCALE IN FEET

BASIN: LAKE WASHINGTON

LITTLE BEAR CREEK WATERSHED

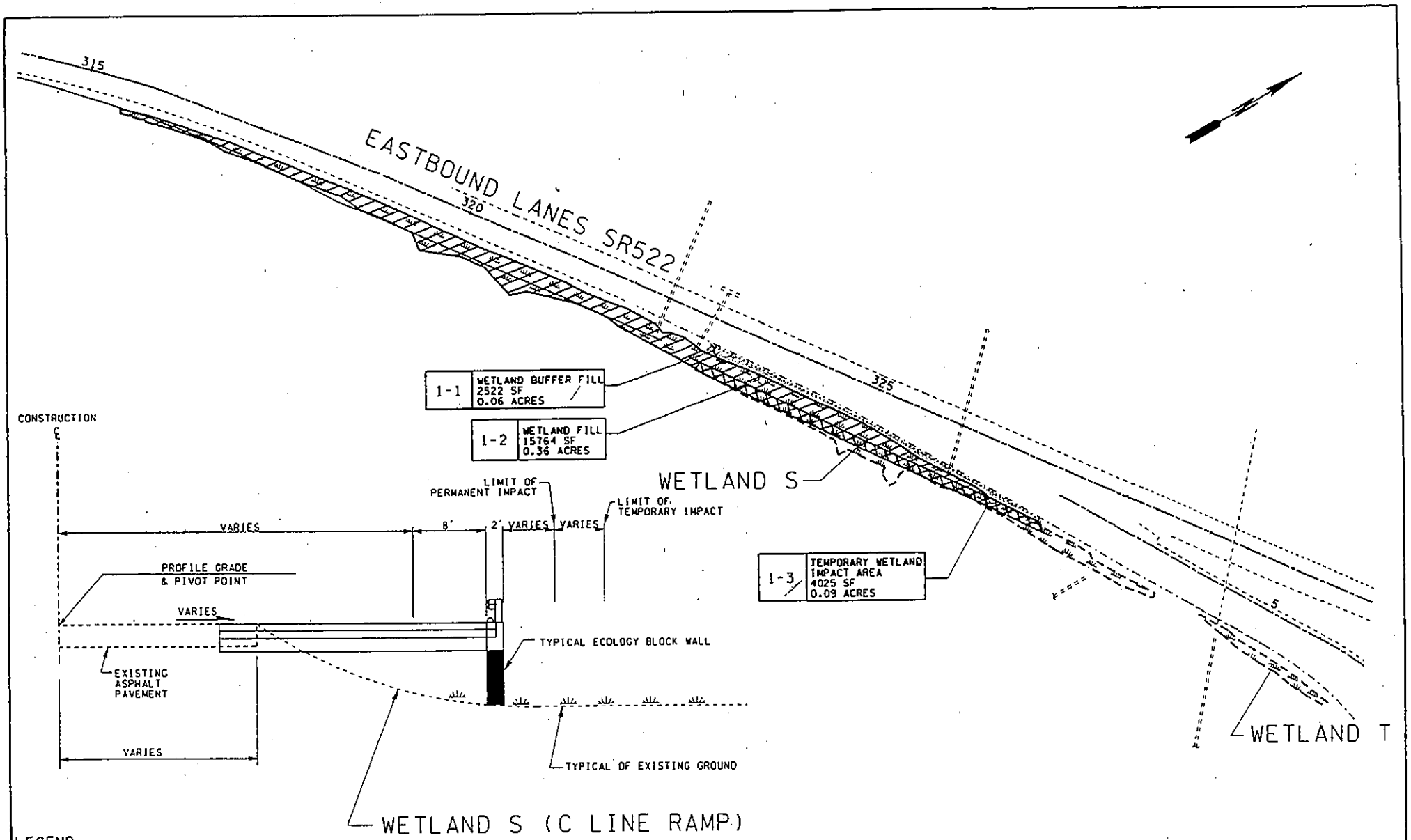
IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK

NEAR: CITY OF WOODINVILLE

IN: SNOHOMISH COUNTY, WA

SHEET 2 OF 33

NOVEMBER 2004



LEGEND

WETLAND BOUNDARY	EXISTING CULVERT
WETLAND BUFFER	REPLACEMENT CULVERT
WETLAND	EX. EDGE OF GRAVEL ROAD, GRAVEL SHLDER, PAVED ROAD, PAVED SHLDER
STREAM BUFFER FILL	PROPOSED EDGE OF PAVEMENT
WETLAND BUFFER FILL	365 ROADWAY STATION
WETLAND FILL	(1) SEE CULVERT REPLACEMENT SHEET CR1
STREAM IMPACT FILL	RAILROAD
TEMP. WETLAND IMPACT AREA	ORDINARY HIGH WATER MARK
TEMP. STREAM BUFFER IMPACT AREA	TEMP. WETLAND BUFFER IMPACT AREA

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW

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IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK

NEAR: CITY OF WOODINVILLE

IN: SNOHOMISH COUNTY, WA

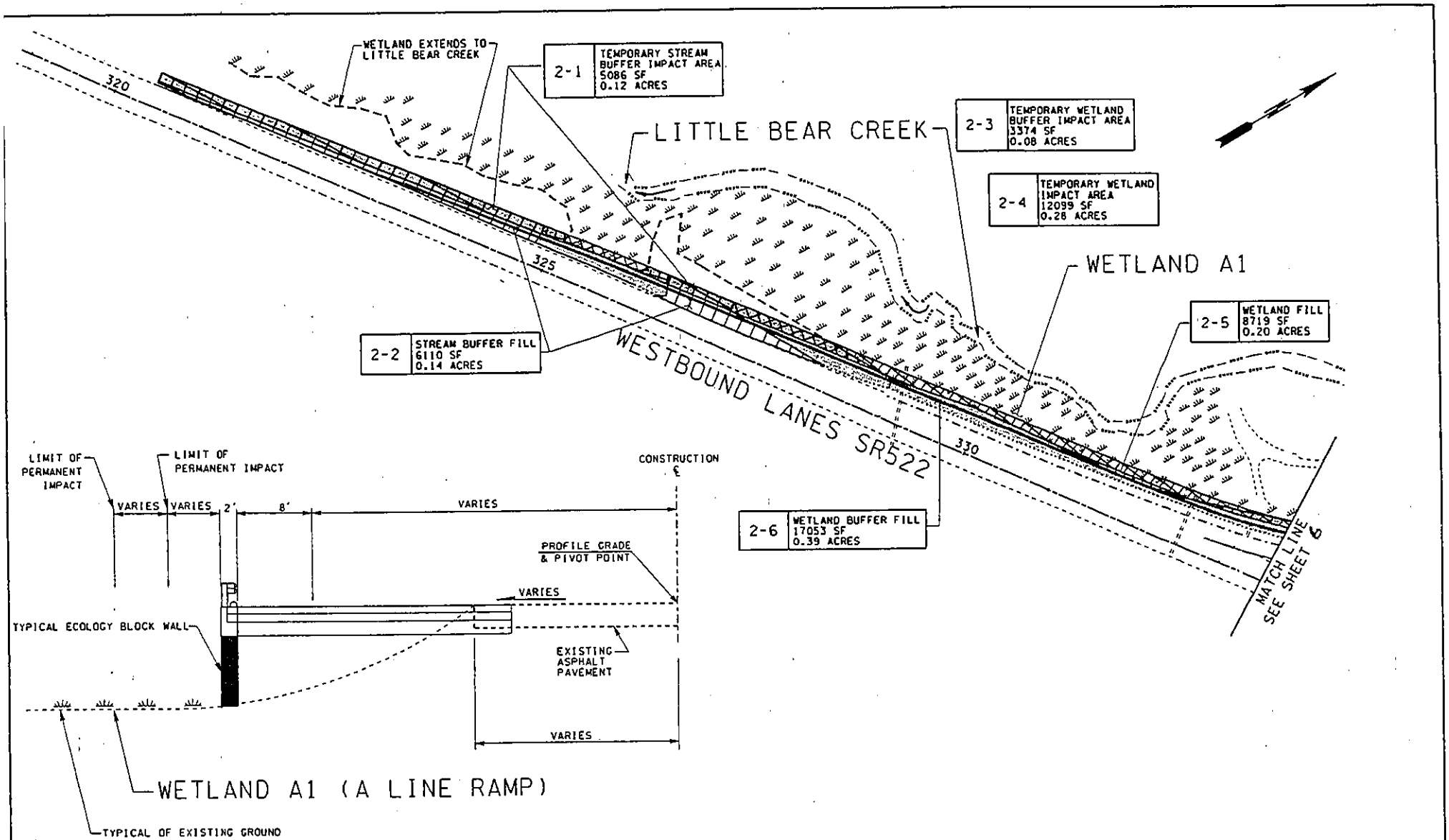
SHEET 3 OF 33

NOVEMBER 2004

WETLAND PLAN

0 75 150

SCALE IN FEET



LEGEND

	WETLAND BOUNDARY		EXISTING CULVERT
	WETLAND BUFFER		REPLACEMENT CULVERT
	WETLAND		EX. EDGE OF GRAVEL ROAD, GRAVEL SHLDER, PAVED ROAD, PAVED SHLDER
	STREAM BUFFER FILL		PROPOSED EDGE OF PAVEMENT
	WETLAND BUFFER FILL	365	ROADWAY STATION
	WETLAND FILL	1	SEE CULVERT REPLACEMENT SHEET CR1
	STREAM IMPACT FILL		RAILROAD
	TEMP. WETLAND IMPACT AREA	OHWM	ORDINARY HIGH WATER MARK
	TEMP. STREAM BUFFER IMPACT AREA		TEMP. WETLAND BUFFER IMPACT AREA

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW

PROJECT: SR 9, SR 522 TO 212TH ST.

APPLICANT: WSDOT

REFERENCE: 200401089

IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK

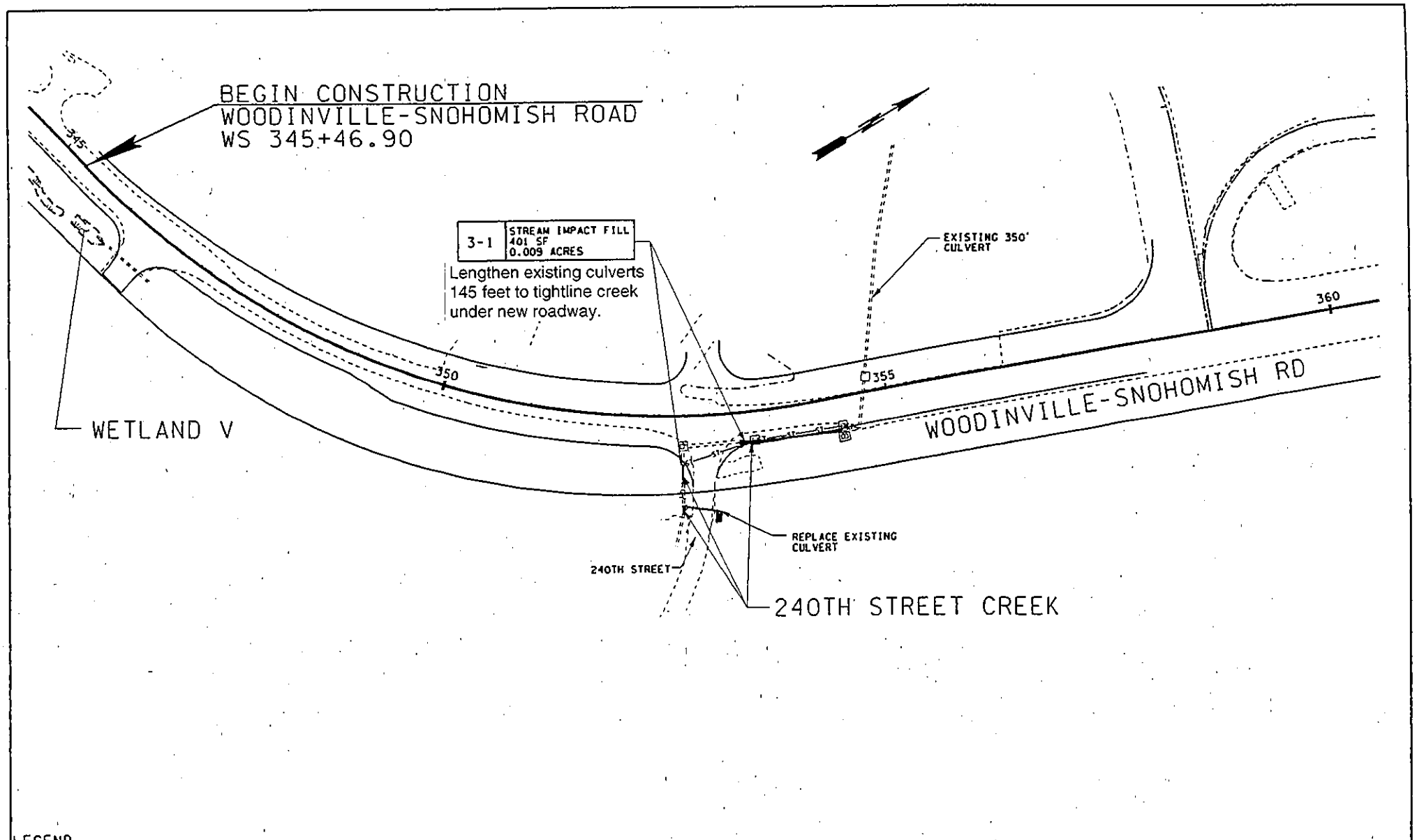
NEAR: CITY OF WOODINVILLE

IN: SNOHOMISH COUNTY, WA

SHEET 4 OF 33 NOVEMBER 2004

WETLAND PLAN

0 75 150
SCALE IN FEET



LEGEND

WETLAND BOUNDARY	EXISTING CULVERT
WETLAND BUFFER	PROPOSED CULVERT
WETLAND	REPLACEMENT CULVERT
STREAM BUFFER FILL	EX. EDGE OF GRAVEL ROAD, GRAVEL SHLDER, PAVED ROAD, PAVED SHLDER
WETLAND BUFFER FILL	PROPOSED EDGE OF PAVEMENT
WETLAND FILL	PROPOSED STORM SEWER
STREAM IMPACT FILL	ROADWAY STATION
TEMP. WETLAND IMPACT AREA	SEE CULVERT REPLACEMENT SHEET CR1
TEMP. STREAM BUFFER IMPACT AREA	RAILROAD
	ORDINARY HIGH WATER MARK
	TEMP. WETLAND BUFFER IMPACT AREA

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW
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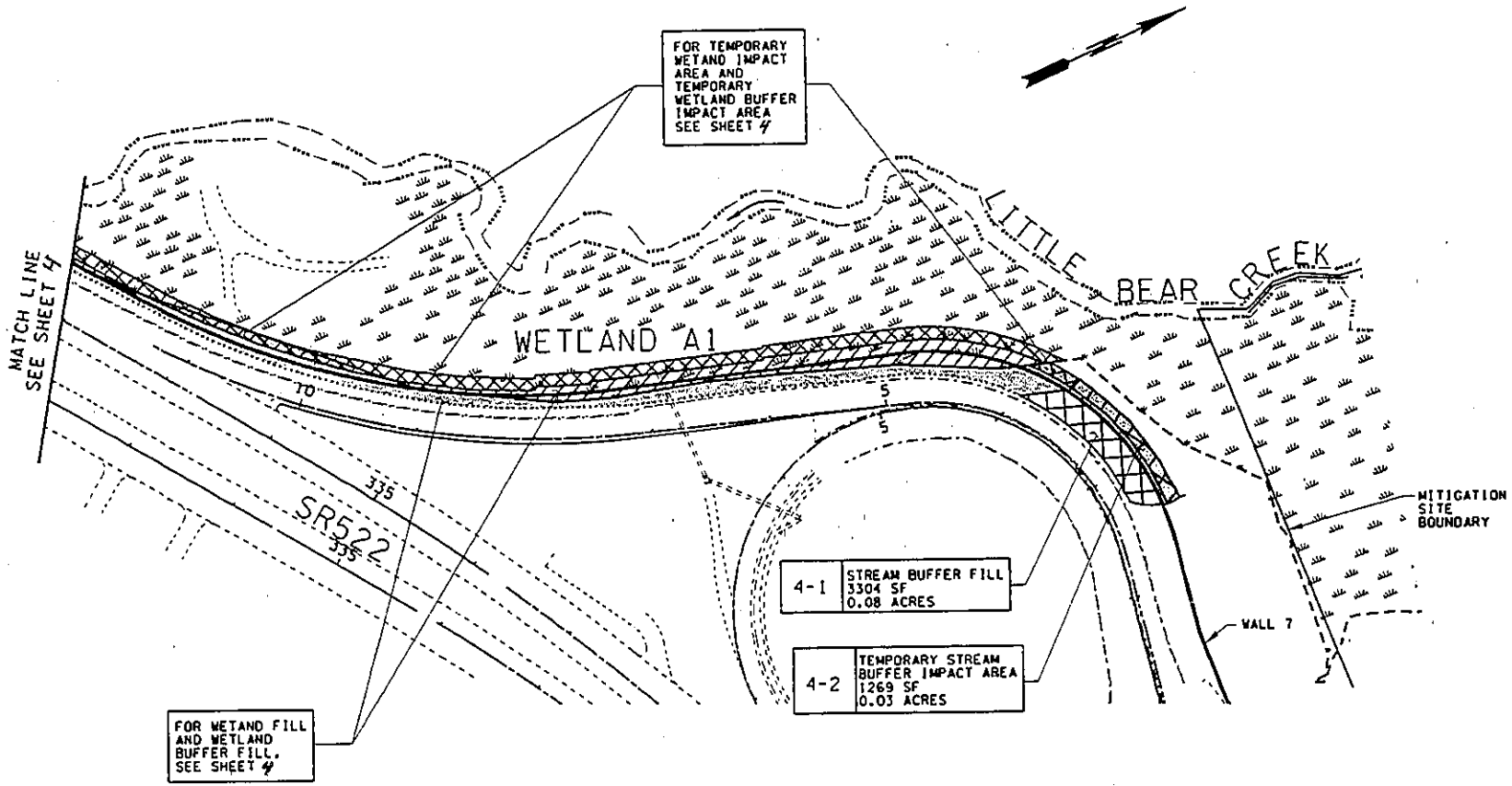
APPLICANT: WSDOT
REFERENCE: 200401089
IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK.
NEAR: CITY OF WOODINVILLE
IN: SNOHOMISH COUNTY, WA
SHEET 5 OF 33 NOVEMBER 2004

WETLAND PLAN

0 75 150
SCALE IN FEET



NOTE: FOR CROSS SECTION OF WETLAND A1, SEE SHEET 4

LEGEND

	WETLAND BOUNDARY		EXISTING CULVERT
	WETLAND BUFFER		REPLACEMENT CULVERT
	WETLAND		EX. EDGE OF GRAVEL ROAD, GRAVEL SHLDER, PAVED ROAD, PAVED SHLDER
	STREAM BUFFER FILL		PROPOSED EDGE OF PAVEMENT
	WETLAND BUFFER FILL	365	ROADWAY STATION
	WETLAND FILL	1	SEE CULVERT REPLACEMENT SHEET CR1
	STREAM IMPACT FILL		RAILROAD
	TEMP. WETLAND IMPACT AREA	OHWM	ORDINARY HIGH WATER MARK
	TEMP. STREAM BUFFER IMPACT AREA		TEMP. WETLAND BUFFER IMPACT AREA

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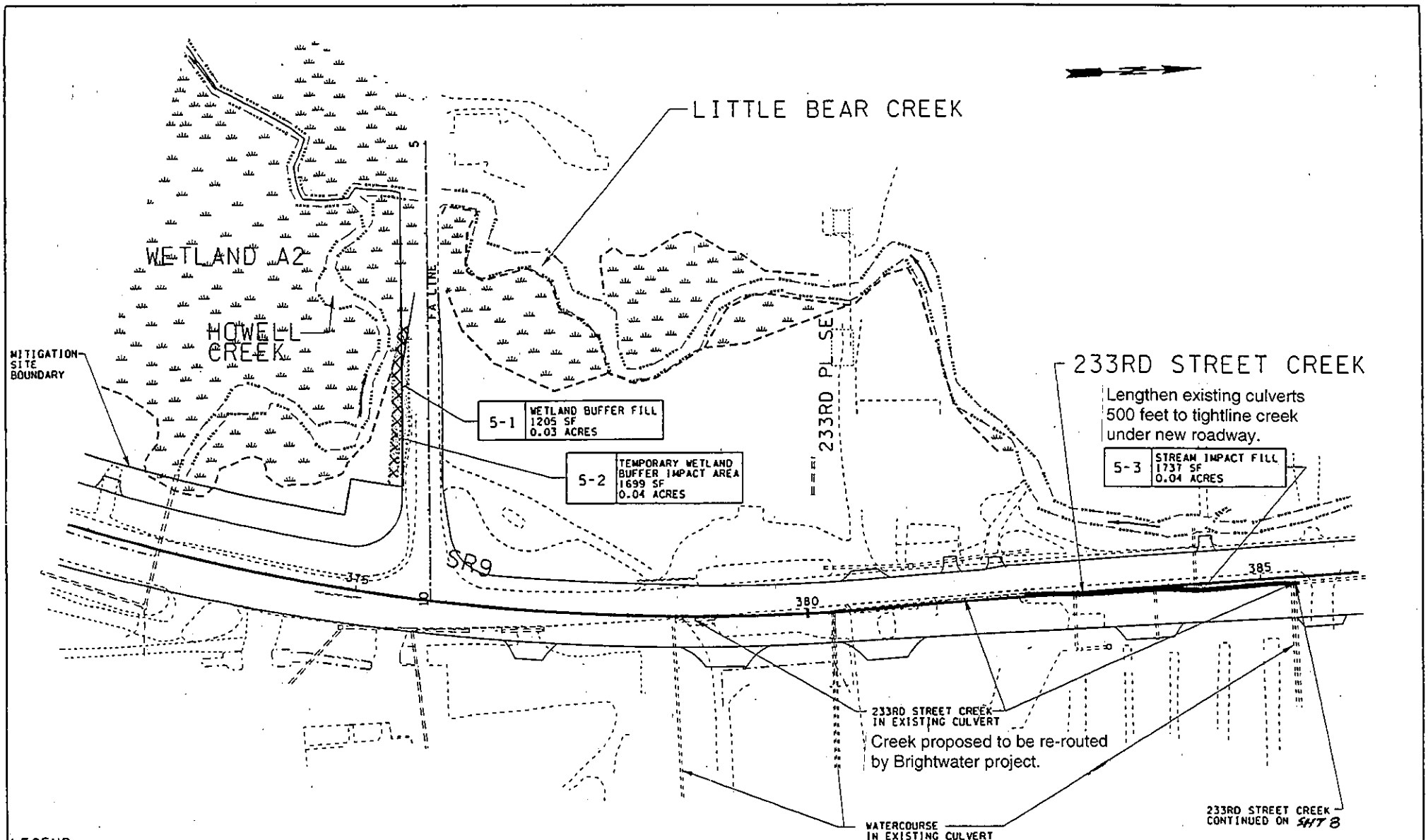
NEAR: CITY OF WOODINVILLE
IN: SNOHOMISH COUNTY, WA
SHEET 6 OF 33 NOVEMBER 2004

WETLAND PLAN

0 75 150
SCALE IN FEET



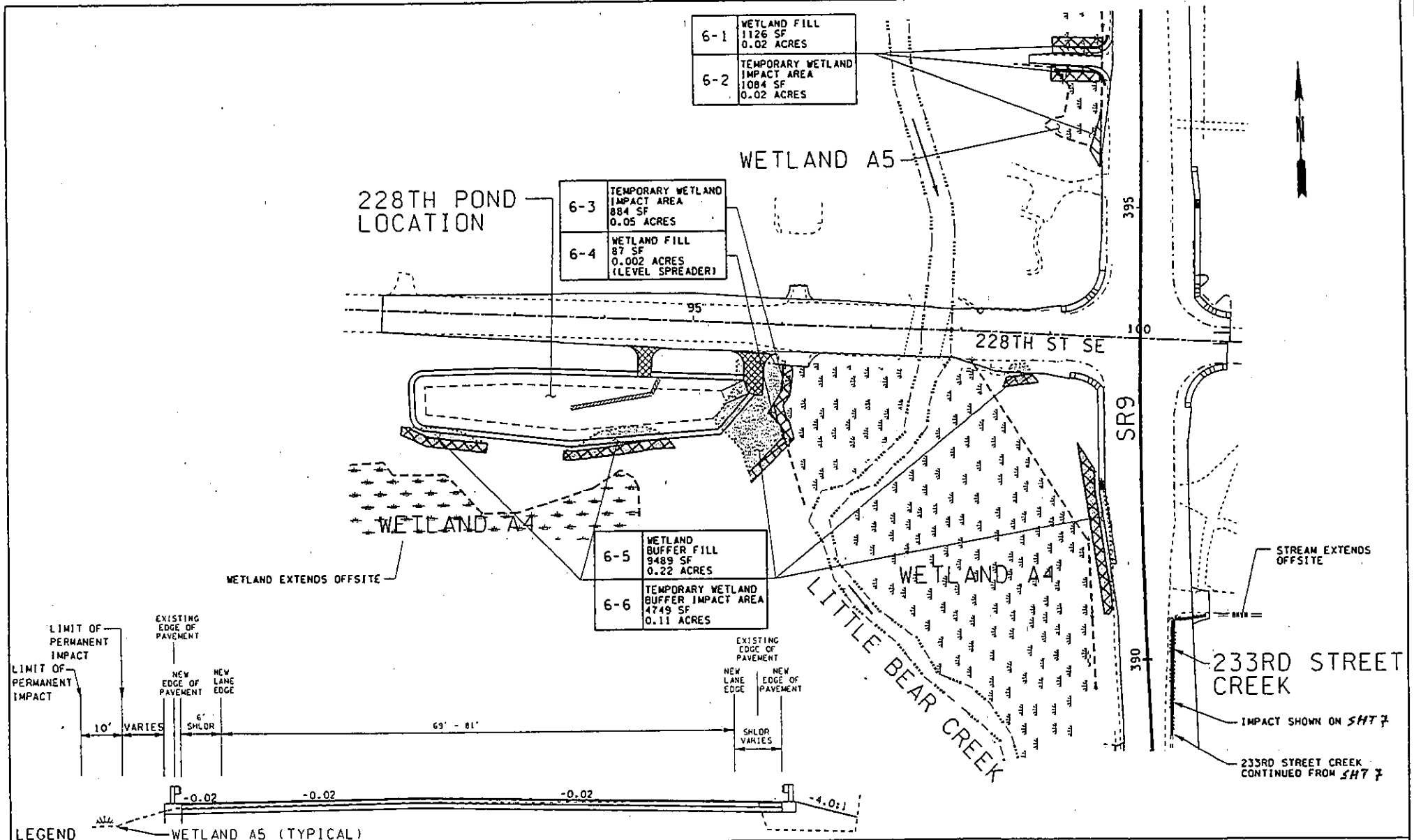
LEGEND

WETLAND BOUNDARY	EXISTING CULVERT
WETLAND BUFFER	REPLACEMENT CULVERT
WETLAND	EX. EDGE OF GRAVEL ROAD, GRAVEL SHLDER, PAVED ROAD, PAVED SHLDER
STREAM BUFFER FILL	PROPOSED EDGE OF PAVEMENT
WETLAND BUFFER FILL	365 ROADWAY STATION
WETLAND FILL	(1) SEE CULVERT REPLACEMENT SHEET CR1
STREAM IMPACT FILL	RAILROAD
TEMP. WETLAND IMPACT AREA	OHWM ORDINARY HIGH WATER MARK
TEMP. STREAM BUFFER IMPACT AREA	TEMP. WETLAND BUFFER IMPACT AREA

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW
PROJECT: SR 9, SR 522 TO 212TH ST.
APPLICANT: WSDOT
REFERENCE: 200401089
IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK
NEAR: CITY OF WOODINVILLE
IN: SNOHOMISH COUNTY, WA
SHEET 7 OF 33 NOVEMBER 2004

WETLAND PLAN

0 75 150
SCALE IN FEET



LEGEND

WETLAND BOUNDARY	EXISTING CULVERT
WETLAND BUFFER	REPLACEMENT CULVERT
WETLAND	EX. EDGE OF GRAVEL ROAD, GRAVEL SHLDER, PAVED ROAD, PAVED SHLDER
STREAM BUFFER FILL	PROPOSED EDGE OF PAVEMENT
WETLAND BUFFER FILL	365 ROADWAY STATION
WETLAND FILL	(1) SEE CULVERT REPLACEMENT SHEET CR1
STREAM IMPACT FILL	RAILROAD
TEMP. WETLAND IMPACT AREA	ORDINARY HIGH WATER MARK
TEMP. STREAM BUFFER IMPACT AREA	TEMP. WETLAND BUFFER IMPACT AREA

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW

PROJECT: SR 9, SR 522 TO 212TH ST.

APPLICANT: WSDOT

REFERENCE: 200401089

IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK

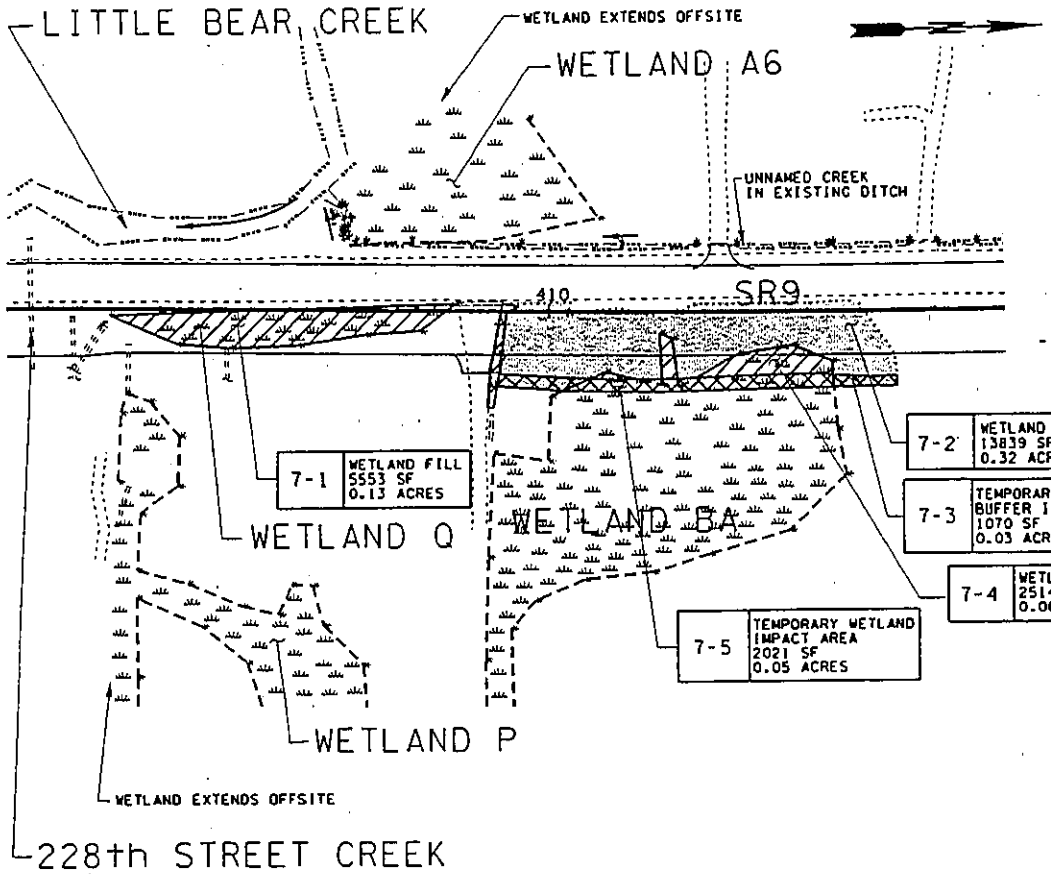
NEAR: CITY OF WOODINVILLE

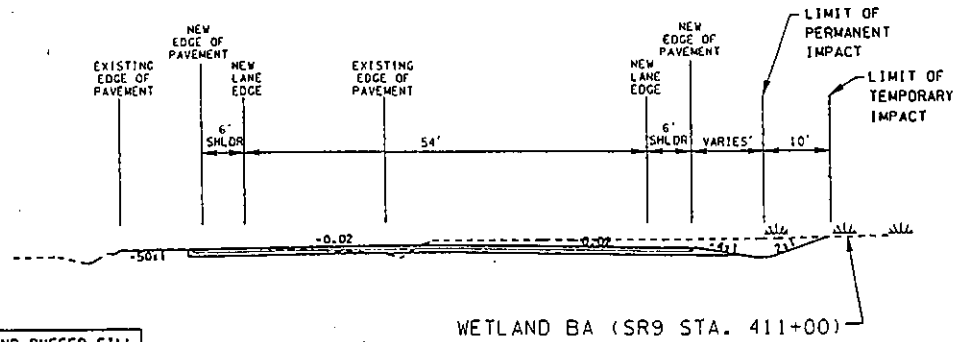
IN: SNOHOMISH COUNTY, WA

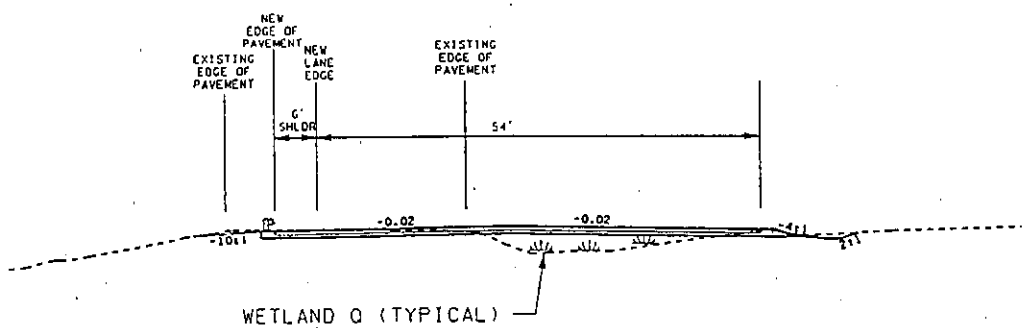
SHEET 8 OF 33 NOVEMBER 2004

WETLAND PLAN

0 75 150
SCALE IN FEET







LEGEND

WETLAND BOUNDARY		EXISTING CULVERT	
WETLAND BUFFER		REPLACEMENT CULVERT	
WETLAND		EX. EDGE OF GRAVEL ROAD, GRAVEL SHLDER, PAVED ROAD, PAVED SHLDER	
STREAM BUFFER FILL		PROPOSED EDGE OF PAVEMENT	
WETLAND BUFFER FILL		365	ROADWAY STATION
WETLAND FILL		1	SEE CULVERT REPLACEMENT SHEET CR1
STREAM IMPACT FILL		RAILROAD	
TEMP. WETLAND IMPACT AREA		OHWM	ORDINARY HIGH WATER MARK
TEMP. STREAM BUFFER IMPACT AREA			TEMP. WETLAND BUFFER IMPACT AREA

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW
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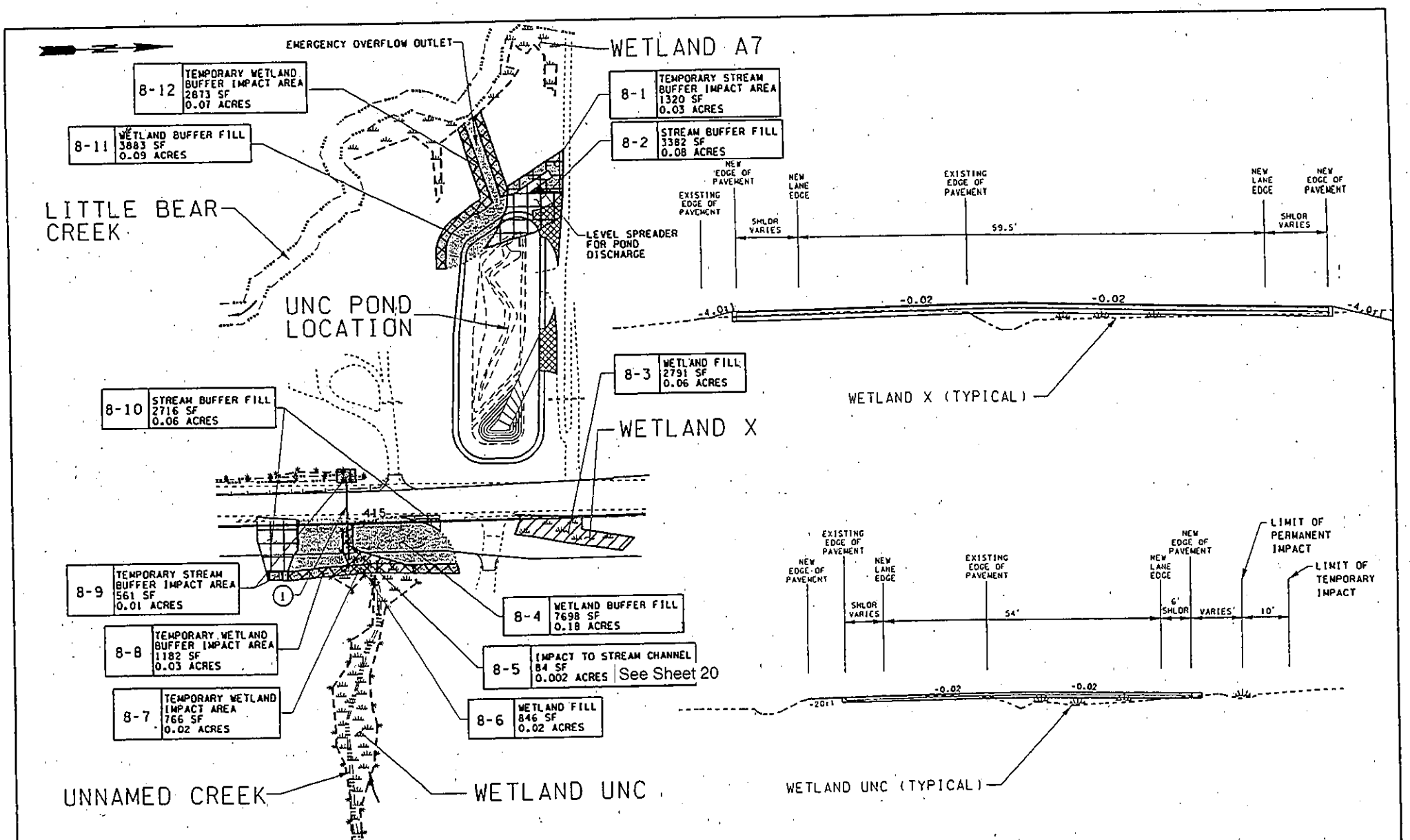
REFERENCE: 200401089
IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK
NEAR: CITY OF WOODINVILLE
IN: SNOHOMISH COUNTY, WA
SHEET 9 OF 33 NOVEMBER 2004

WETLAND PLAN

0 75 150
SCALE IN FEET



LEGEND

	WETLAND BOUNDARY		EXISTING CULVERT
	WETLAND BUFFER		REPLACEMENT CULVERT
	WETLAND		EX. EDGE OF GRAVEL ROAD, GRAVEL SHLDER, PAVED ROAD, PAVED SHLDER
	STREAM BUFFER FILL		PROPOSED EDGE OF PAVEMENT
	WETLAND BUFFER FILL	365	ROADWAY STATION
	WETLAND FILL	1	SEE CULVERT REPLACEMENT SHEET CR1
	STREAM IMPACT FILL		RAILROAD
	TEMP. WETLAND IMPACT AREA	OHW	ORDINARY HIGH WATER MARK
	TEMP. STREAM BUFFER IMPACT AREA		TEMP. WETLAND BUFFER IMPACT AREA

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REFERENCE: 200401089
IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK
NEAR: CITY OF WOODINVILLE
IN: SNOHOMISH COUNTY, WA
SHEET 10 OF 33 NOVEMBER 2004

WETLAND PLAN

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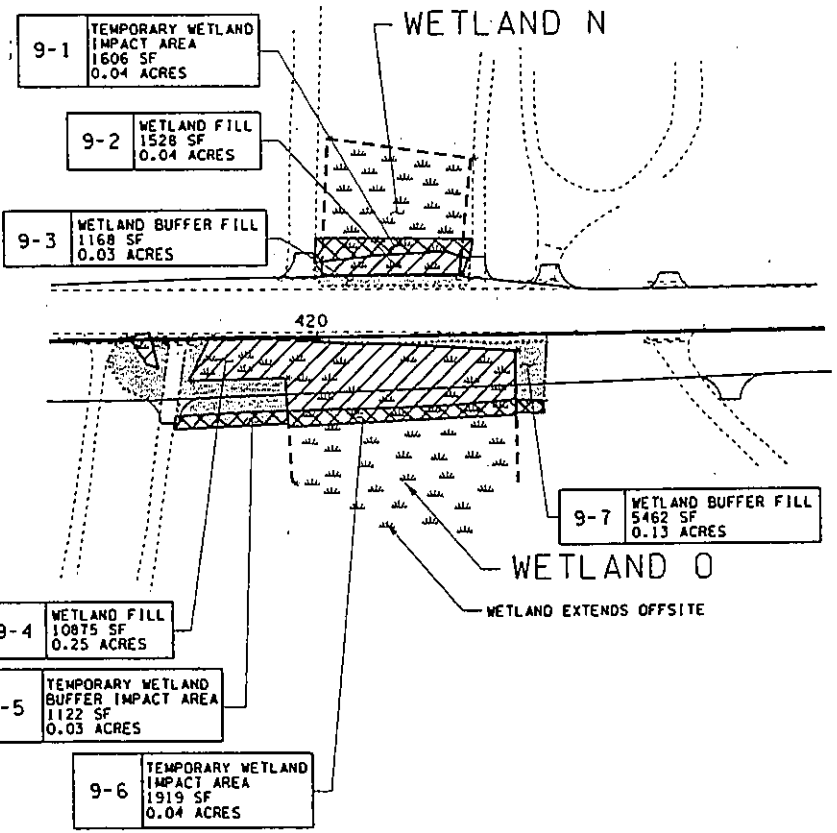
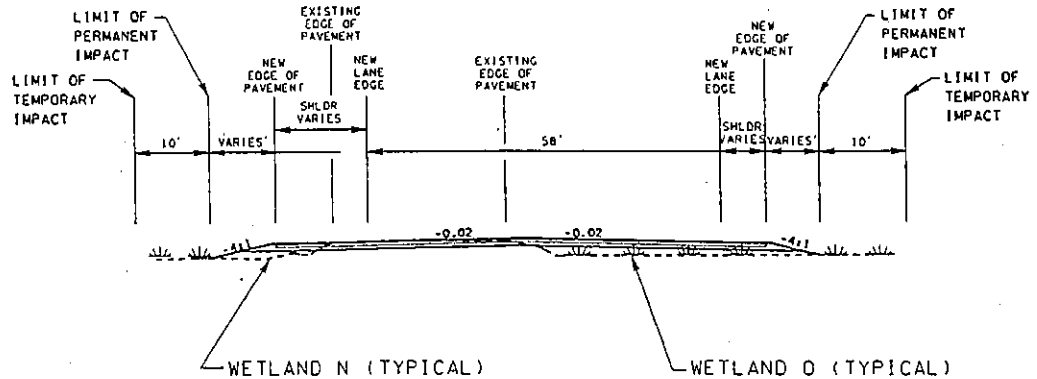
SCALE IN FEET





LEGEND

-----	WETLAND BOUNDARY		EXISTING CULVERT
.....	WETLAND BUFFER		REPLACEMENT CULVERT
	WETLAND		EX. EDGE OF GRAVEL ROAD, GRAVEL SHLDER, PAVED ROAD, PAVED SHLDER
	STREAM BUFFER FILL		PROPOSED EDGE OF PAVEMENT
	WETLAND BUFFER FILL	365	ROADWAY STATION
	WETLAND FILL	1	SEE CULVERT REPLACEMENT SHEET CR1
	STREAM IMPACT FILL		RAILROAD
	TEMP. WETLAND IMPACT AREA	— OHWM —	ORDINARY HIGH WATER MARK
	TEMP. STREAM BUFFER IMPACT AREA		TEMP. WETLAND BUFFER IMPACT AREA

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW
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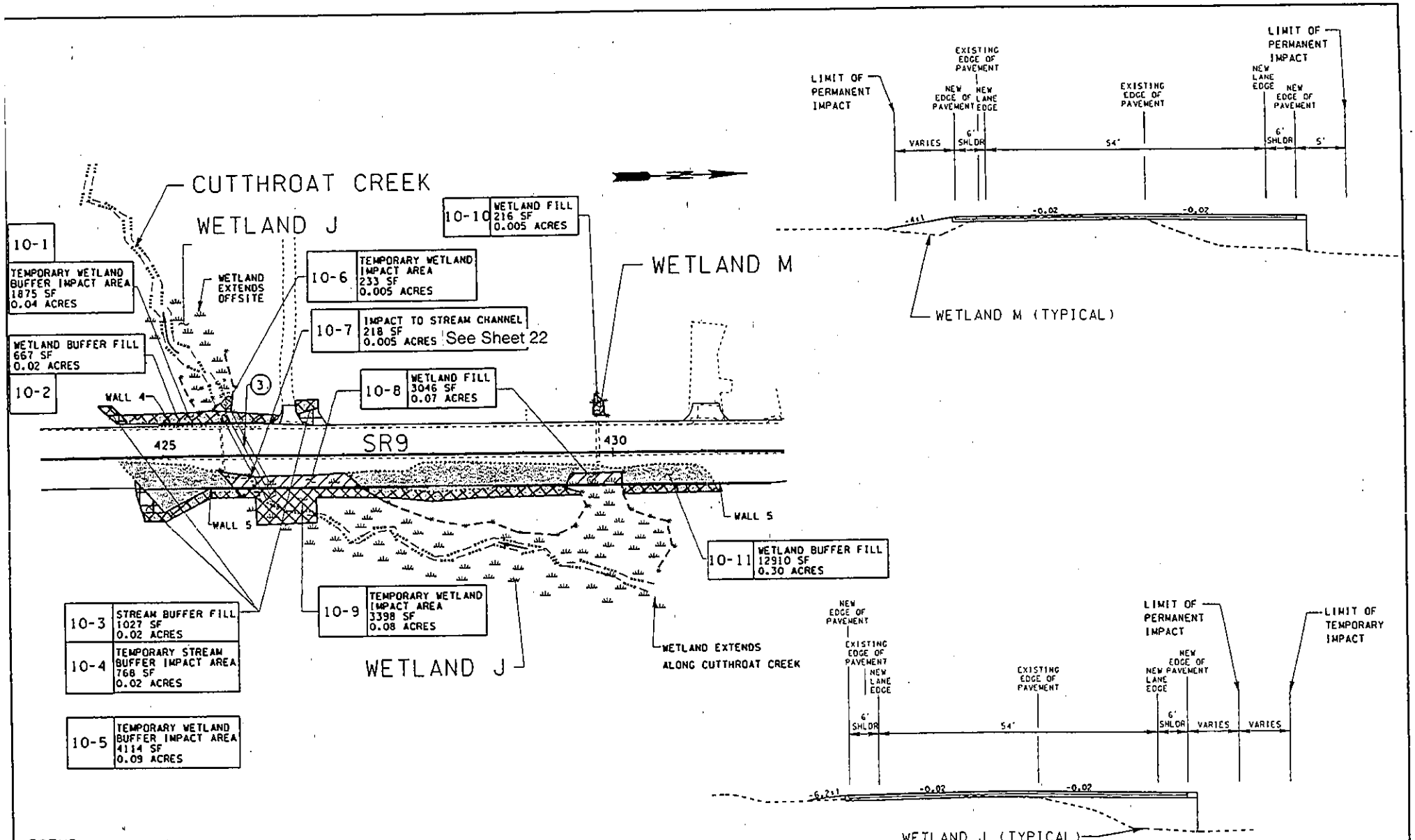
REFERENCE: 200401089
IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK
NEAR: CITY OF WOODINVILLE
IN: SNOHOMISH COUNTY, WA
SHEET 11 OF 33 NOVEMBER 2004

WETLAND PLAN

0 75 150
SCALE IN FEET



LEGEND

WETLAND BOUNDARY		EXISTING CULVERT	
WETLAND BUFFER		REPLACEMENT CULVERT	
WETLAND		EX. EDGE OF GRAVEL ROAD, GRAVEL SHLDER, PAVED ROAD, PAVED SHLDER	
STREAM BUFFER FILL		PROPOSED EDGE OF PAVEMENT	
WETLAND BUFFER FILL		ROADWAY STATION	365
WETLAND FILL		SEE CULVERT REPLACEMENT SHEET CR1	1
STREAM IMPACT FILL		RAILROAD	
TEMP. WETLAND IMPACT AREA		ORDINARY HIGH WATER MARK	OHWM
TEMP. STREAM BUFFER IMPACT AREA		TEMP. WETLAND BUFFER IMPACT AREA	

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW

PROJECT: SR 9, SR 522 TO 212TH ST.

APPLICANT: WSDOT

REFERENCE: 200401089

IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK

NEAR: CITY OF WOODINVILLE

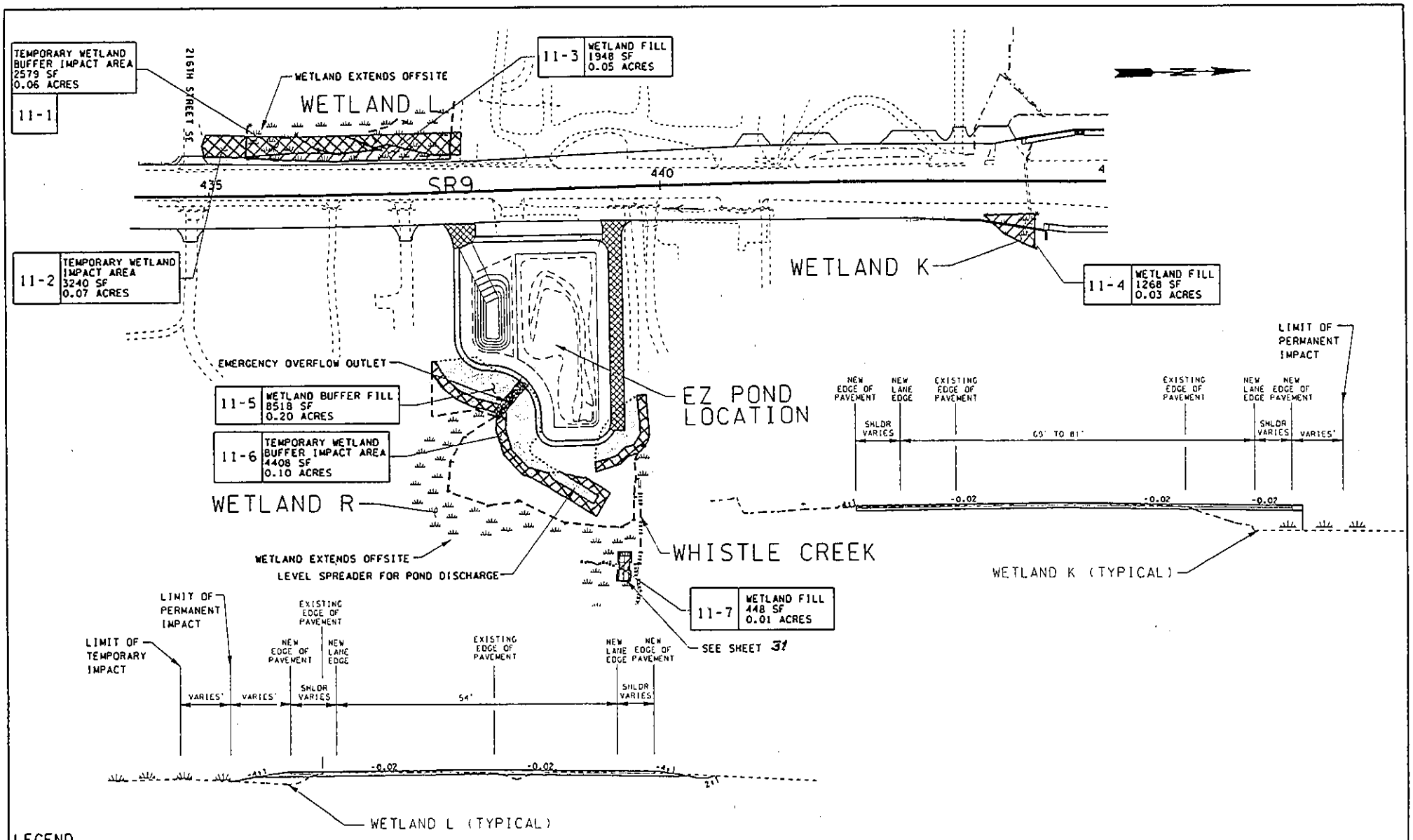
IN: SNOHOMISH COUNTY, WA

SHEET 12 OF 33 NOVEMBER 2004

WETLAND PLAN

0 75 150

SCALE IN FEET



LEGEND

WETLAND BOUNDARY		EXISTING CULVERT	
WETLAND BUFFER		REPLACEMENT CULVERT	
WETLAND		EX. EDGE OF GRAVEL ROAD, GRAVEL SHLDER, PAVED ROAD, PAVED SHLDER	
STREAM BUFFER FILL		PROPOSED EDGE OF PAVEMENT	
WETLAND BUFFER FILL		365	ROADWAY STATION
WETLAND FILL		1	SEE CULVERT REPLACEMENT SHEET CR1
STREAM IMPACT FILL			RAILROAD
TEMP. WETLAND IMPACT AREA		OHWM	ORDINARY HIGH WATER MARK
TEMP. STREAM BUFFER IMPACT AREA			TEMP. WETLAND BUFFER IMPACT AREA

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW

PROJECT: SR 9, SR 522 TO 212TH ST.

APPLICANT: WSDOT

REFERENCE: 200401089

IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK

NEAR: CITY OF WOODINVILLE

IN: SNOHOMISH COUNTY, WA

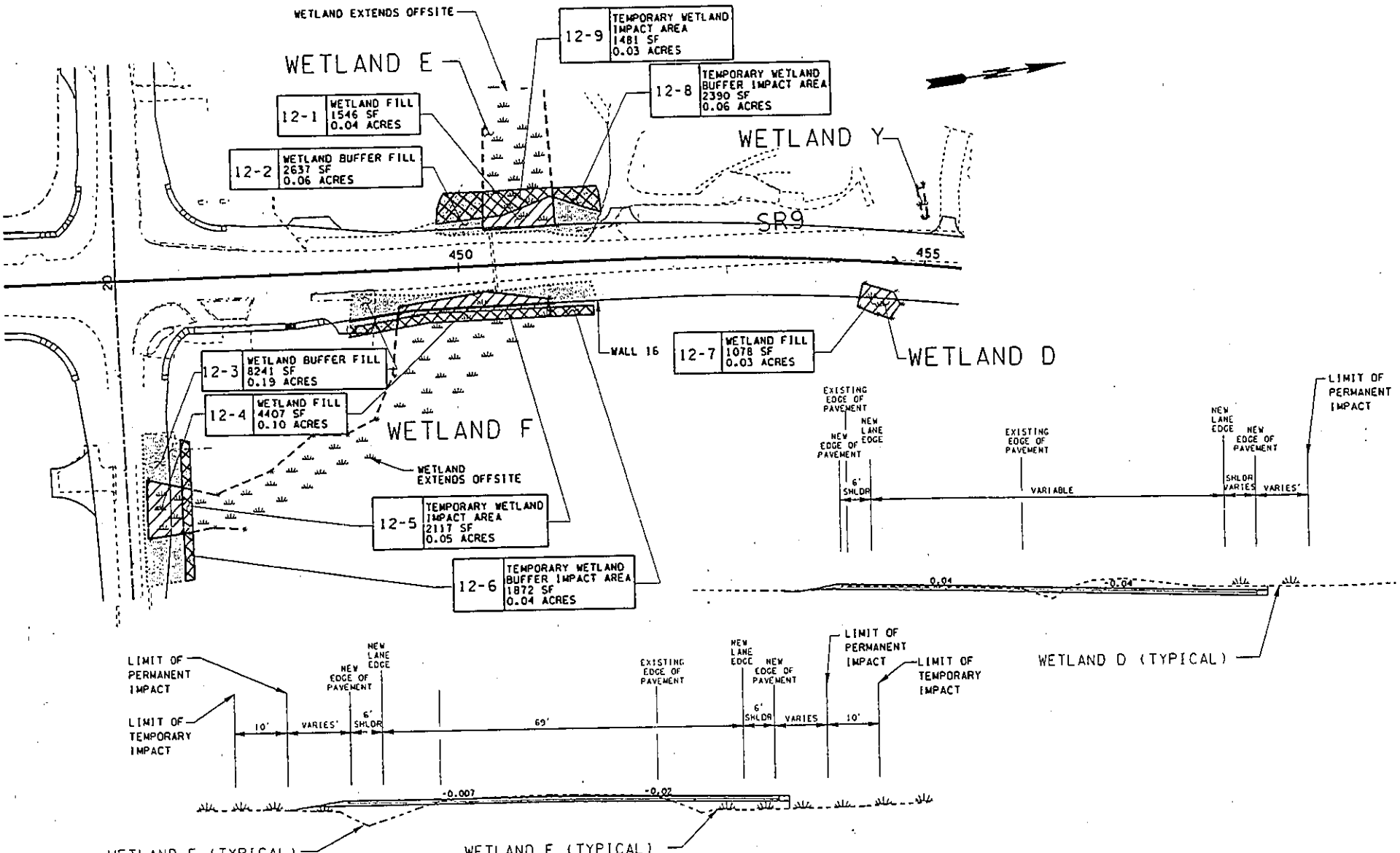
SHEET 13 OF 33

NOVEMBER 2004

WETLAND PLAN

0 75 150

SCALE IN FEET



LEGEND

- WETLAND BOUNDARY
- WETLAND BUFFER
- WETLAND
- STREAM BUFFER FILL
- WETLAND BUFFER FILL
- WETLAND FILL
- STREAM IMPACT FILL
- TEMP. WETLAND IMPACT AREA
- TEMP. STREAM BUFFER IMPACT AREA
- EXISTING CULVERT
- REPLACEMENT CULVERT
- EX. EDGE OF GRAVEL ROAD, GRAVEL SHLDER, PAVED ROAD, PAVED SHLDER
- PROPOSED EDGE OF PAVEMENT
- 365 ROADWAY STATION
- 1 SEE CULVERT REPLACEMENT SHEET CR1
- RAILROAD
- OHWM ORDINARY HIGH WATER MARK
- TEMP. WETLAND BUFFER IMPACT AREA

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW

PROJECT: SR 9, SR 522 TO 212TH ST.

APPLICANT: WSDOT

REFERENCE: 200401089

IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK

NEAR: CITY OF WOODINVILLE

IN: SNOHOMISH COUNTY, WA

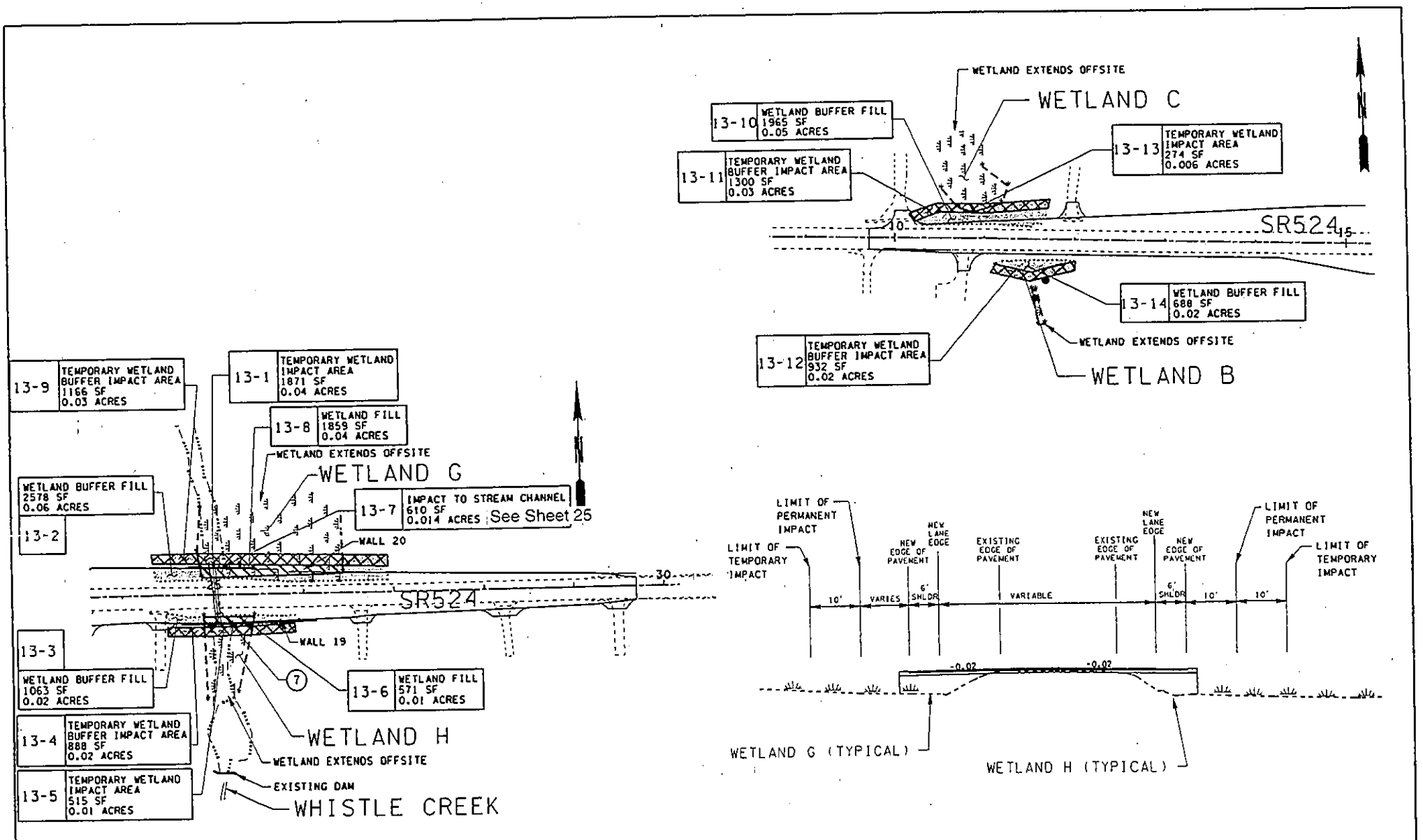
SHEET 14 OF 33

NOVEMBER 2004

WETLAND PLAN

0 75 150

SCALE IN FEET



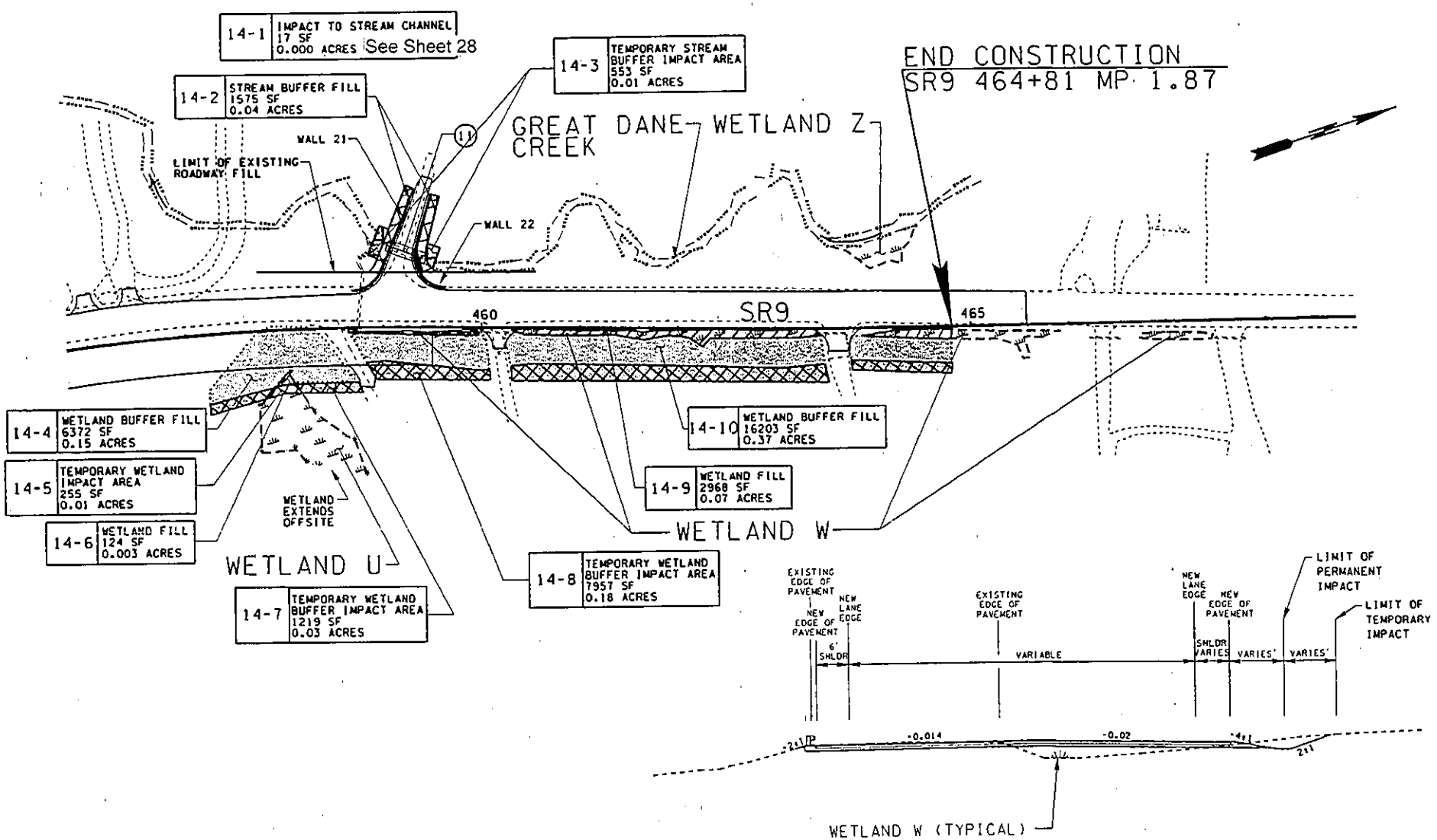
LEGEND

- - - - -	WETLAND BOUNDARY		EXISTING CULVERT
. . . . .	WETLAND BUFFER		REPLACEMENT CULVERT
	WETLAND	- - - - -	EX. EDGE OF GRAVEL ROAD, GRAVEL SHLDER, PAVED ROAD, PAVED SHLDER
	STREAM BUFFER FILL		PROPOSED EDGE OF PAVEMENT
	WETLAND BUFFER FILL	365	ROADWAY STATION
	WETLAND FILL	1	SEE CULVERT REPLACEMENT SHEET CR1
	STREAM IMPACT FILL		RAILROAD
	TEMP. WETLAND IMPACT AREA	— OHWM —	ORDINARY HIGH WATER MARK
	TEMP. STREAM BUFFER IMPACT AREA		TEMP. WETLAND BUFFER IMPACT AREA

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW
PROJECT: SR 9, SR 522 TO 212TH ST.
APPLICANT: WSDOT
REFERENCE: 200401089
IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK
NEAR: CITY OF WOODINVILLE
IN: SNOHOMISH COUNTY, WA
SHEET 15 OF 33 NOVEMBER 2004

WETLAND PLAN

0 75 150
SCALE IN FEET



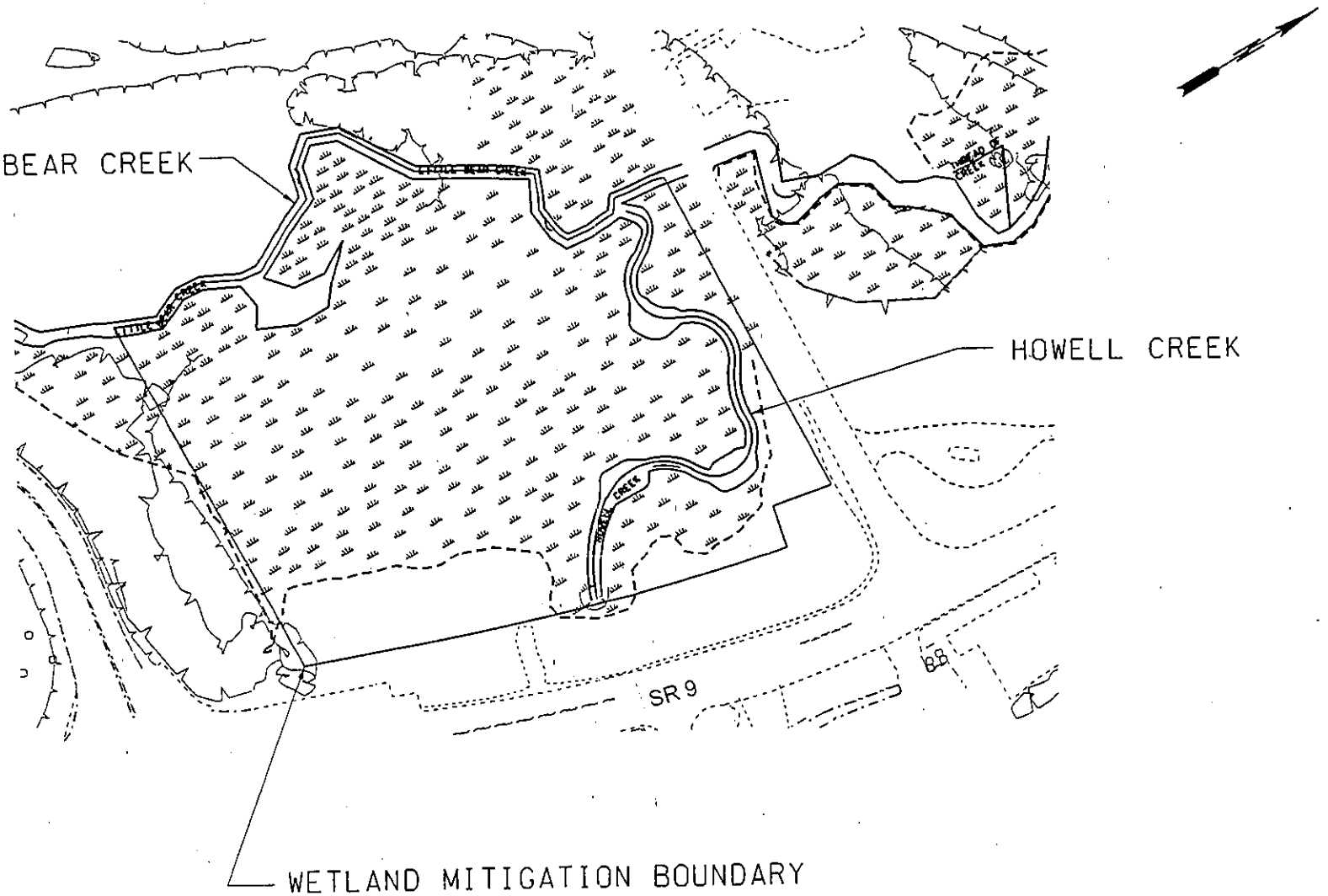
LEGEND

WETLAND BOUNDARY	EXISTING CULVERT
WETLAND BUFFER	REPLACEMENT CULVERT
WETLAND	EX. EDGE OF GRAVEL ROAD, GRAVEL SHLDER, PAVED ROAD, PAVED SHLDER
STREAM BUFFER FILL	PROPOSED EDGE OF PAVEMENT
WETLAND BUFFER FILL	365 ROADWAY STATION
WETLAND FILL	1 SEE CULVERT REPLACEMENT SHEET CR1
STREAM IMPACT FILL	RAILROAD
TEMP. WETLAND IMPACT AREA	ORDINARY HIGH WATER MARK
TEMP. STREAM BUFFER IMPACT AREA	TEMP. WETLAND BUFFER IMPACT AREA

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW
PROJECT: SR 9, SR 522 TO 212TH ST.
APPLICANT: WSDOT
REFERENCE: 200401089
IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK
NEAR: CITY OF WOODINVILLE
IN: SNOHOMISH COUNTY, WA
SHEET 16 OF 33 NOVEMBER 2004

WETLAND PLAN

0 75 150
SCALE IN FEET



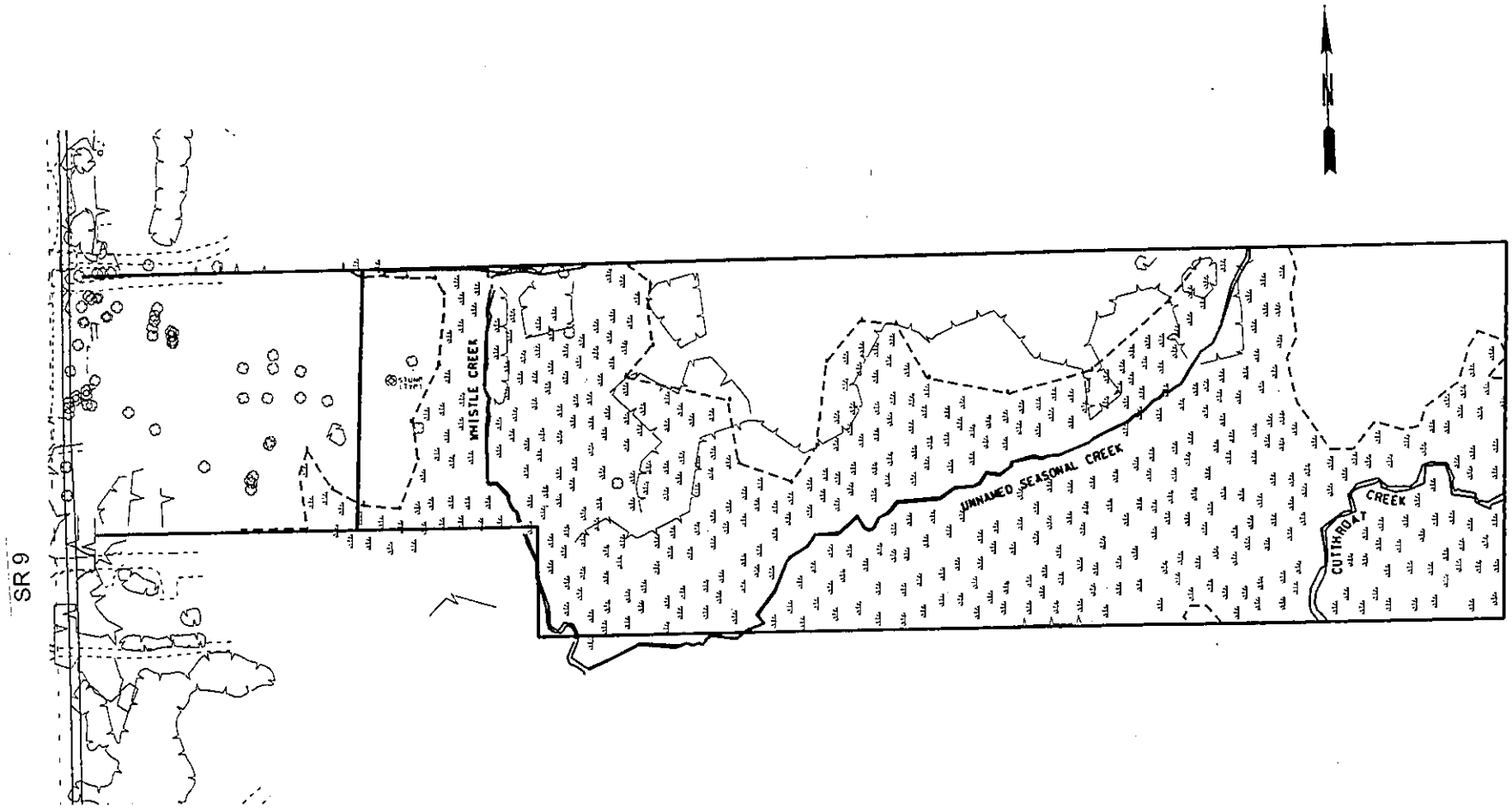
LEGEND

- WETLAND BOUNDARY
- WETLAND BUFFER
- WETLAND
- EXISTING TREE LINE
- EXISTING CULVERT
- REPLACEMENT CULVERT
- EX. EDGE OF GRAVEL ROAD, GRAVEL SHLDER, PAVED ROAD, PAVED SHLDER
- EXISTING BRUSH LINE

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW
PROJECT: SR 9, SR 522 TO 212TH ST.
APPLICANT: WSDOT
REFERENCE: 200401089
IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK
NEAR: CITY OF WOODINVILLE
IN: SNOHOMISH COUNTY, WA
SHEET 17 OF 33
NOVEMBER 2004

WETLAND MITIGATION AREA

0 75 150
SCALE IN FEET



LEGEND

- WETLAND BOUNDARY
- WETLAND BUFFER
- WETLAND
- EXISTING TREE LINE
- EXISTING CULVERT
- REPLACEMENT CULVERT
- EX. EDGE OF GRAVEL ROAD, GRAVEL SHLDER, PAVED ROAD, PAVED SHLDER
- EXISTING BRUSH LINE

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW

PROJECT: SR 9, SR 522 TO 212TH ST.

APPLICANT: WSDOT

REFERENCE: 200401089

IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK

NEAR: CITY OF WOODINVILLE

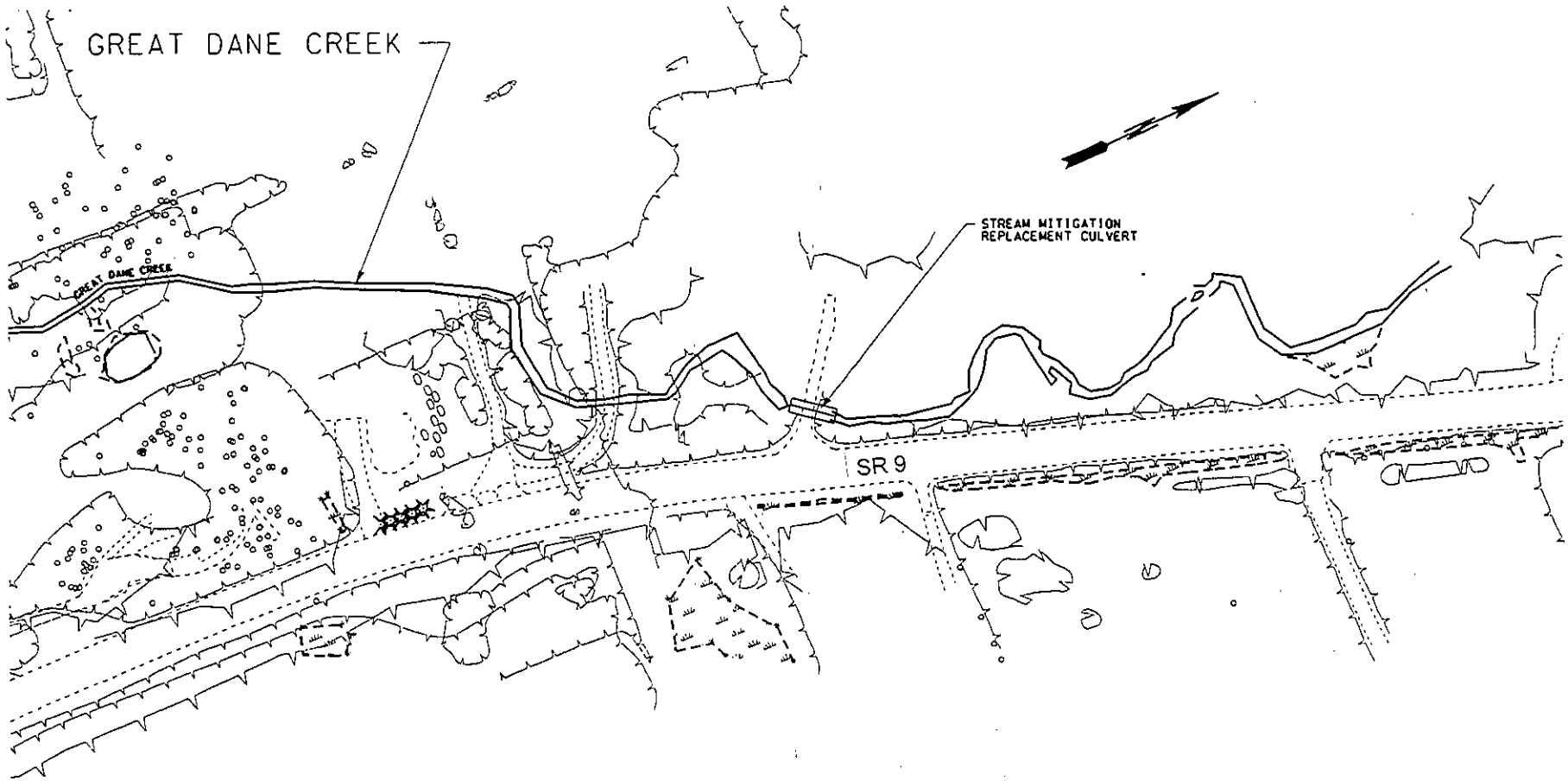
IN: SNOHOMISH COUNTY, WA

SHEET 18 OF 33 NOVEMBER 2004

STREAM AND BUFFER MITIGATION AREA

0 75 150

SCALE IN FEET



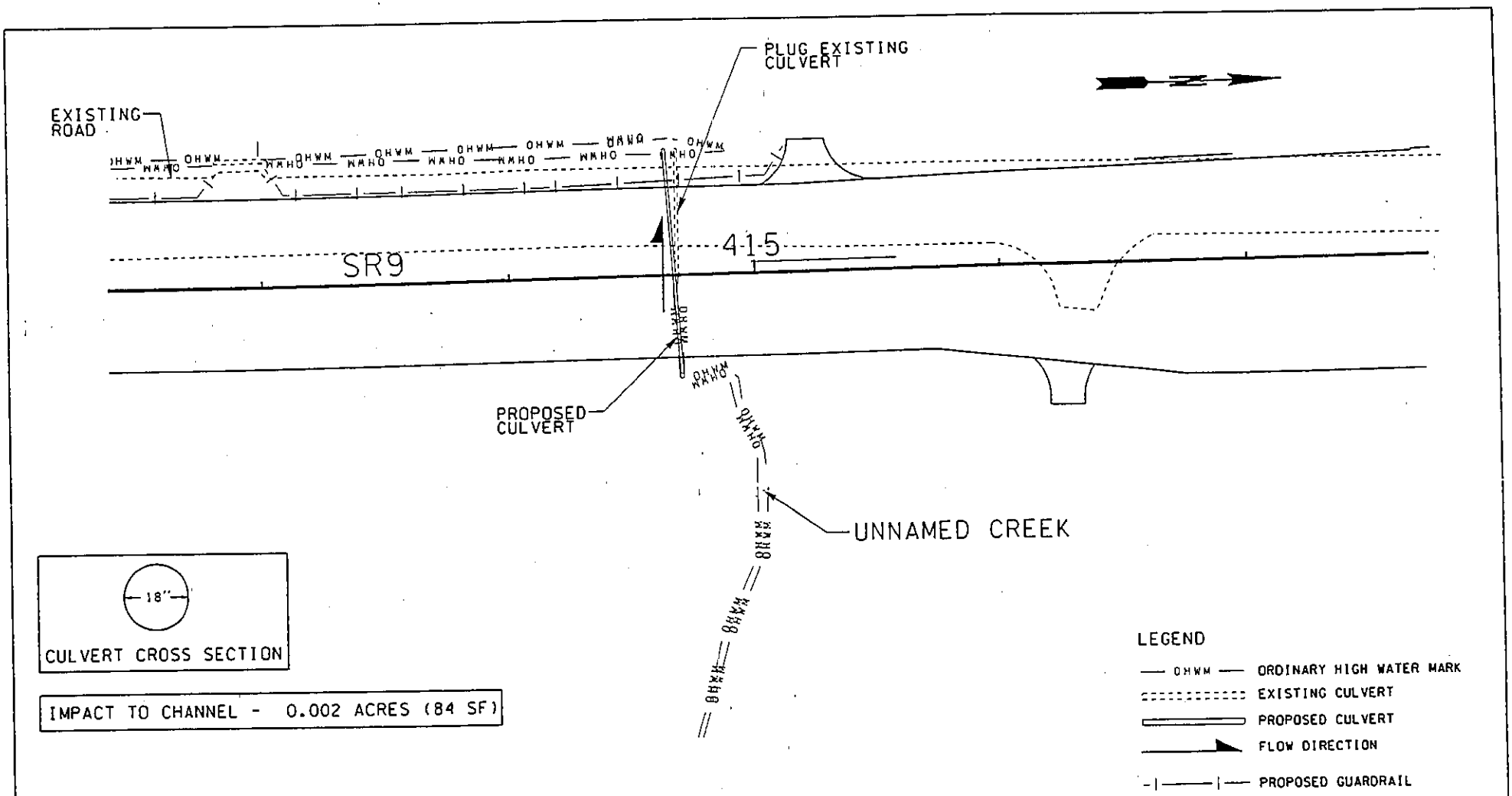
LEGEND

- WETLAND BOUNDARY
- WETLAND BUFFER
- WETLAND
- EXISTING TREE LINE
- EXISTING CULVERT
- REPLACEMENT CULVERT
- EX. EDGE OF GRAVEL ROAD, GRAVEL SHLDER, PAVED ROAD, PAVED SHLDER
- EXISTING BRUSH LINE

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW
PROJECT: SR 9, SR 522 TO 212TH ST.
APPLICANT: WSDOT
REFERENCE: 200401089
IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK
NEAR: CITY OF WOODINVILLE
IN: SNOHOMISH COUNTY, WA
SHEET 19 OF 33 NOVEMBER 2004

STREAM MITIGATION AREA

0 75 150
SCALE IN FEET



EXISTING CULVERT DATA

SR9 STA. 414+68
18" REINFORCED CONCRETE PIPE
49.9' LONG
0.013 FT/FT SLOPE

PROPOSED CULVERT DATA

SR9 STA. 414+68
18" DIAMETER
85' LONG

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW
PROJECT: SR 9, SR 522 TO 212TH ST.
APPLICANT: WSDOT
REFERENCE: 200401089

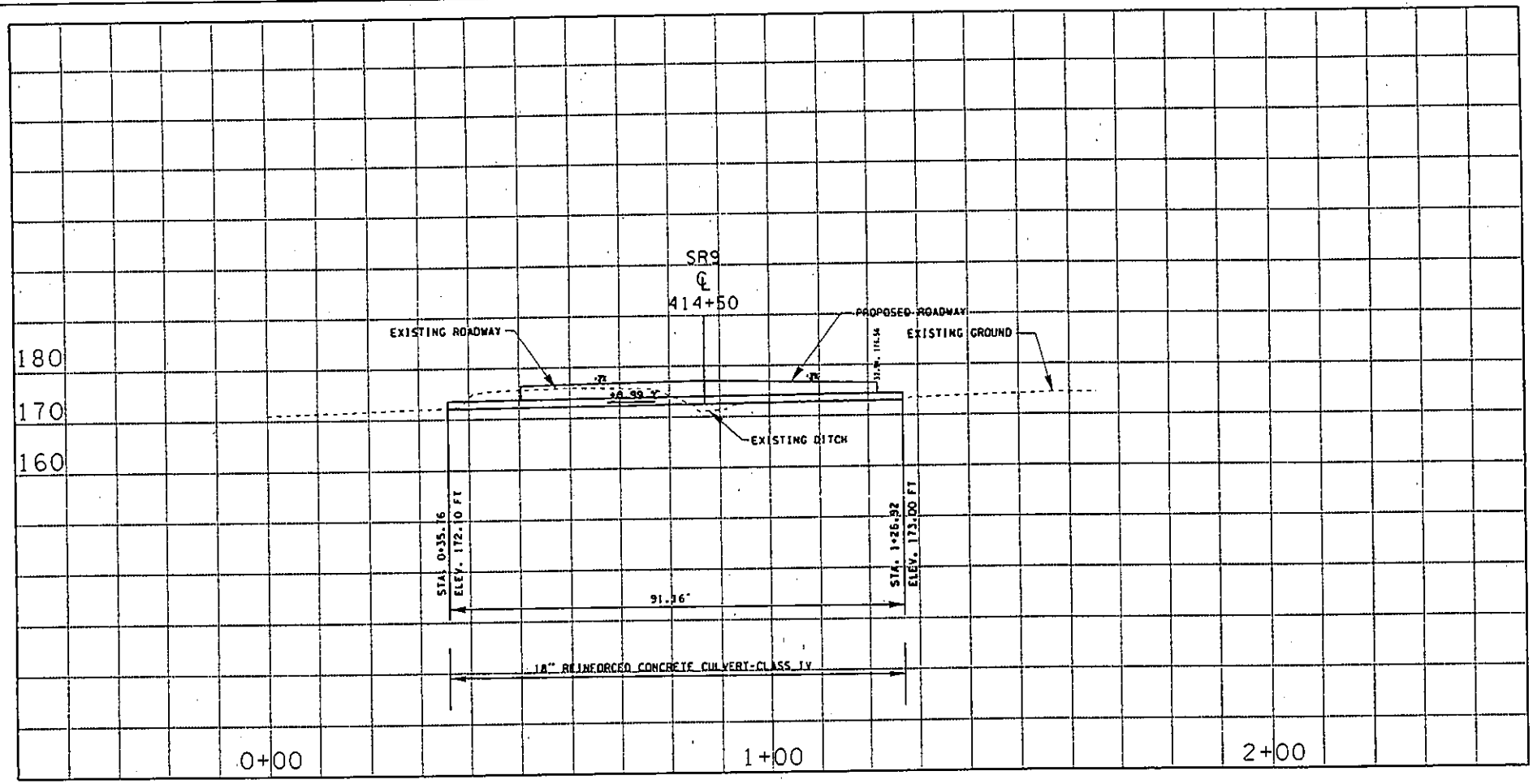
IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK
NEAR: CITY OF WOODINVILLE
IN: SNOHOMISH COUNTY, WA

SHEET 20 OF 33 NOVEMBER 2004

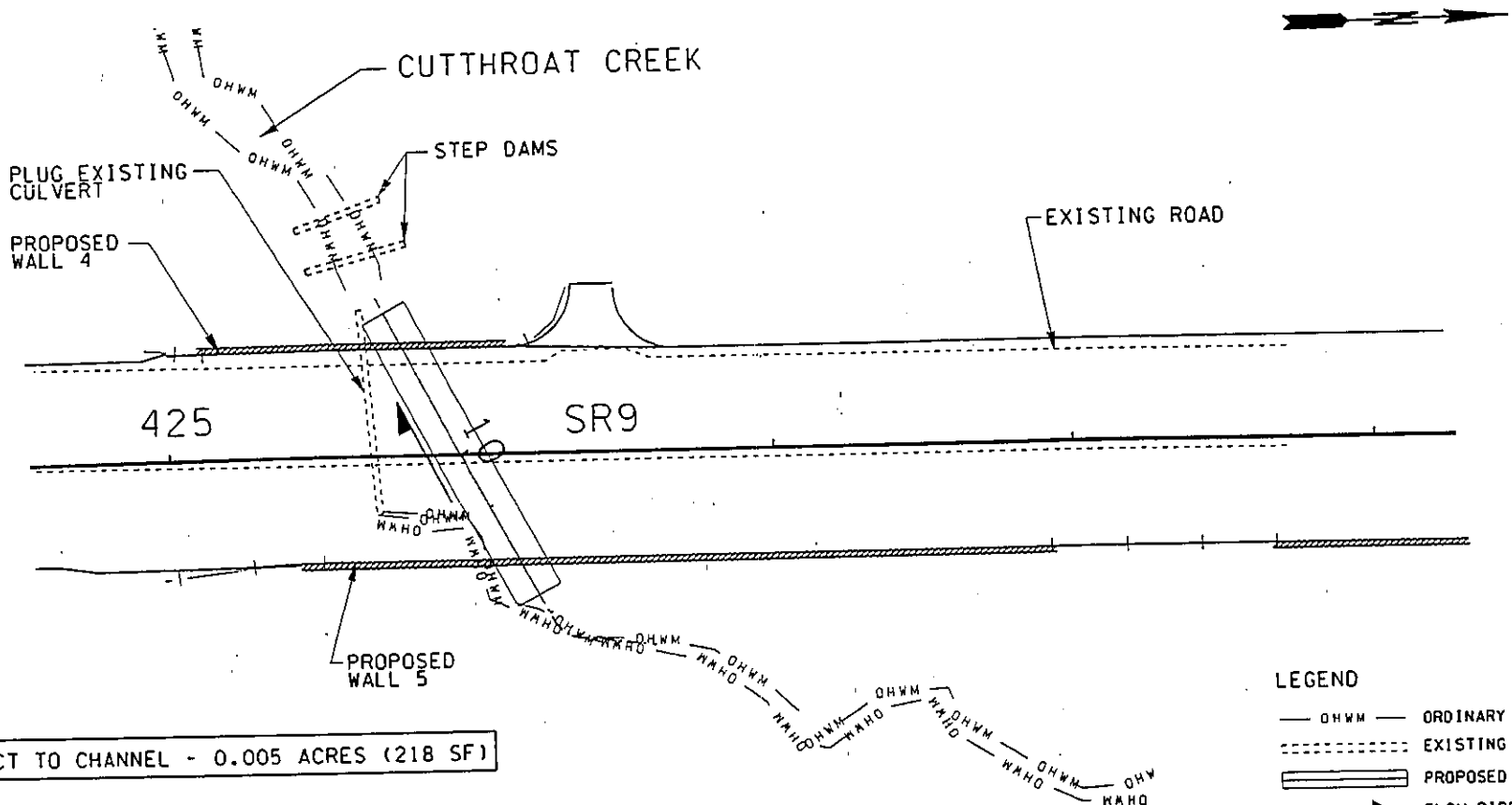
UNNAMED CREEK CULVERT REPLACEMENT PLAN

0 30 60

ALSO SHOWN ON 10



PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW PROJECT: SR 9, SR 522 TO 212TH ST. APPLICANT: WSDOT REFERENCE: 200401089	IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK NEAR: CITY OF WOODINVILLE IN: SNOHOMISH COUNTY, WA SHEET 21 OF 33 NOVEMBER 2004	UNNAMED CREEK CULVERT REPLACEMENT PROFILE



IMPACT TO CHANNEL - 0.005 ACRES (218 SF)

LEGEND

- OHWM — ORDINARY HIGH WATER MARK
- EXISTING CULVERT
- PROPOSED CULVERT
- FLOW DIRECTION
- PROPOSED GUARDRAIL

EXISTING CULVERT DATA

SR9 STA. 425+67
24" REINFORCED CONCRETE PIPE
67' LONG
0.0040 FT/FT SLOPE

PROPOSED CULVERT DATA

SR9 STA. 425+96
STREAM SIMULATION DESIGN
15'-10" X 10'-7" PIPE ARCH
106' LONG

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW
PROJECT: SR 9, SR 522 TO 212TH ST.
APPLICANT: WSDOT
REFERENCE: 200401089

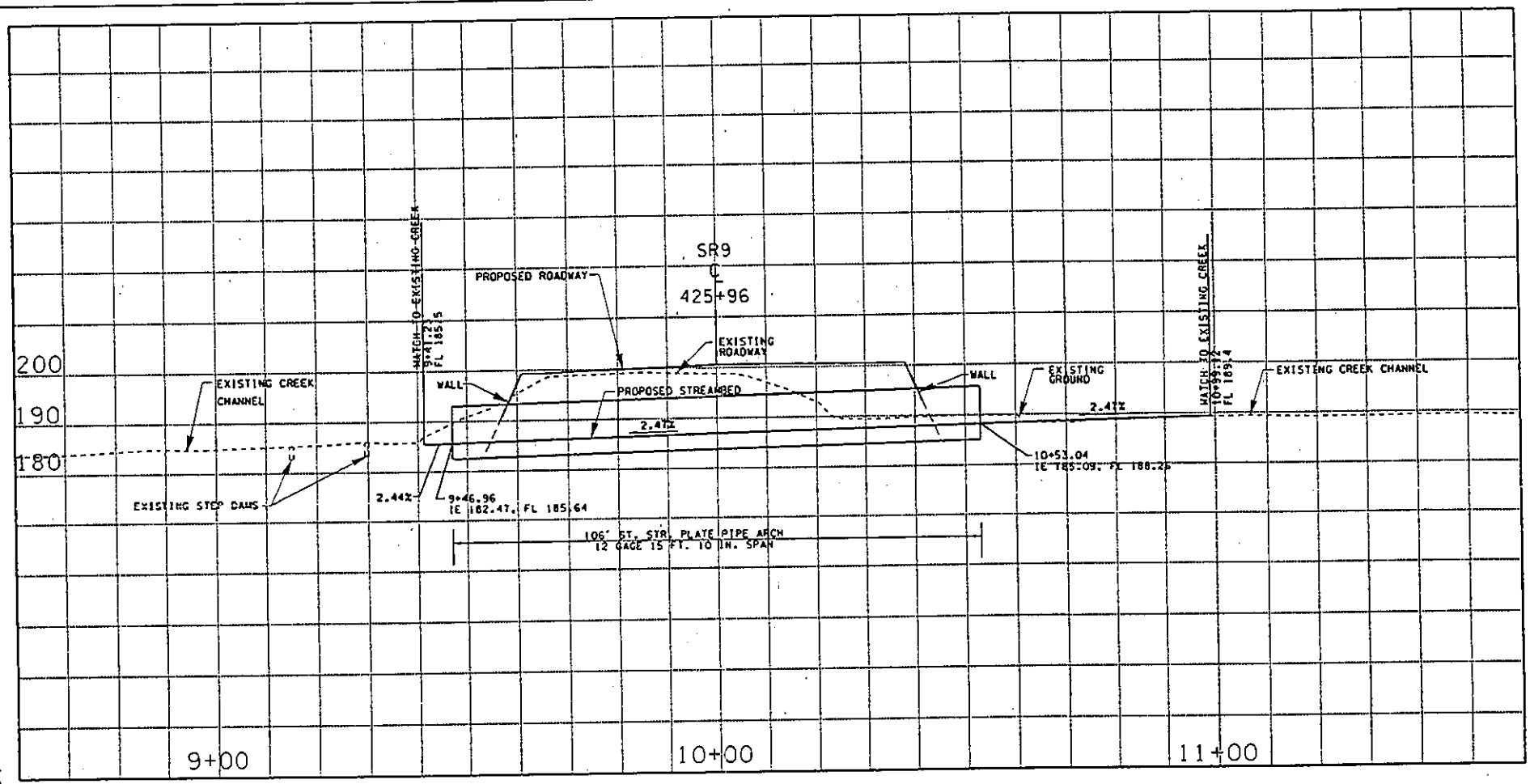
IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK
NEAR: CITY OF WOODINVILLE
IN: SNOHOMISH COUNTY, WA

SHEET 22 OF 33 NOVEMBER 2004

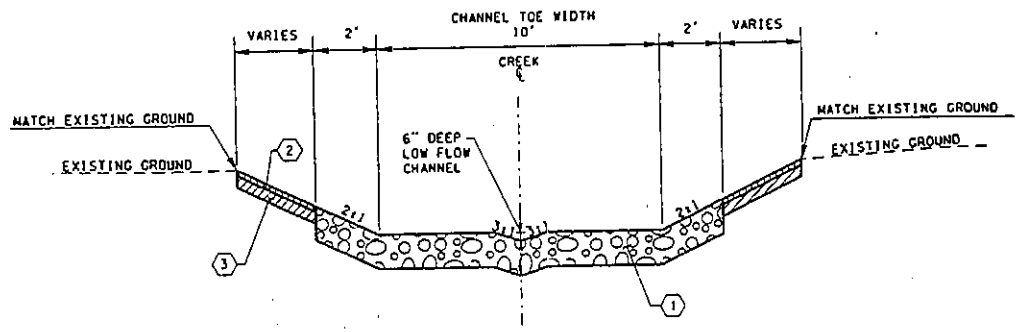
CUTTHROAT CREEK CULVERT REPLACEMENT PLAN

0 30 60

ALSO SHOWN ON 12



PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW PROJECT: SR 9, SR 522 TO 212TH ST. APPLICANT: WSDOT REFERENCE: 200401089	IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK NEAR: CITY OF WOODINVILLE IN: SNOHOMISH COUNTY, WA SHEET 23 OF 33 NOVEMBER 2004	CUTTHROAT CREEK CULVERT REPLACEMENT PROFILE



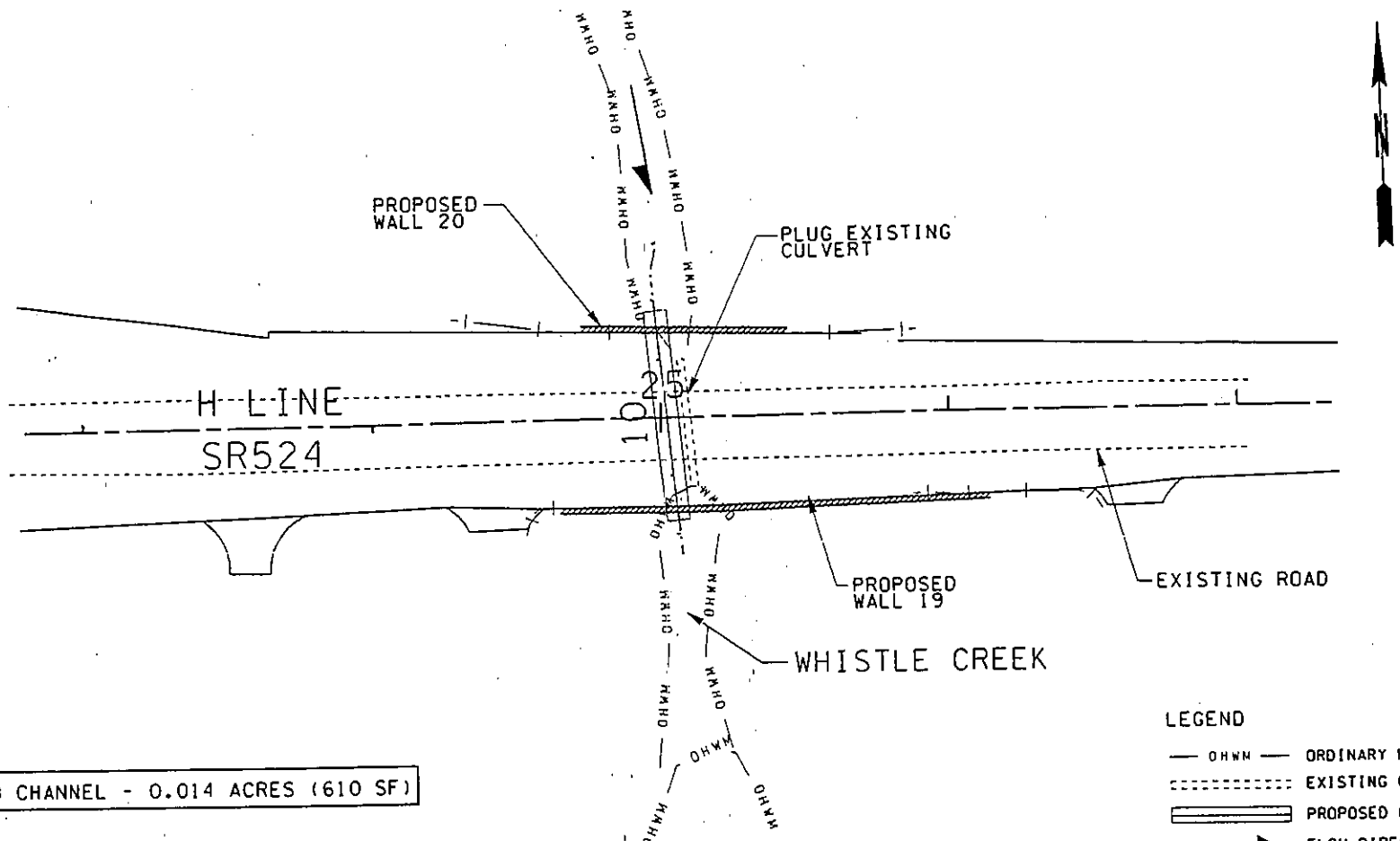
CUTTHROAT CREEK SECTION

Sta. 9+41.23 to 9+46.96
Sta. 10+53.04 to 10+99.12

LEGEND

1. 2' DEPTH OF STREAMBED COBBLES FOR CUTTHROAT CREEK
2. 0.25' DEPTH OF SOIL AMENDMENT
3. 0.75' DEPTH OF TOPSOIL TYPE B

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW PROJECT: SR 9, SR 522 TO 212TH ST. APPLICANT: WSDOT REFERENCE: 200401089	IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK NEAR: CITY OF WOODINVILLE IN: SNOHOMISH COUNTY, WA SHEET 24 OF 33 NOVEMBER 2004	CUTTHROAT CREEK CULVERT REPLACEMENT CROSS SECTION NOT TO SCALE



IMPACT TO CHANNEL - 0.014 ACRES (610 SF)

LEGEND

- OHWM — ORDINARY HIGH WATER MARK
- EXISTING CULVERT
- PROPOSED CULVERT
- FLOW DIRECTION
- PROPOSED GUARDRAIL

EXISTING CULVERT DATA

H LINE STA. 25+09
44' LONG
18" REINFORCED CONCRETE PIPE

PROPOSED CULVERT DATA

H LINE STA. 25+02
STREAM SIMULATION DESIGN
8'-2" X 5'-9" PIPE ARCH
72' LONG

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW
PROJECT: SR 9, SR 522 TO 212TH ST.
APPLICANT: WSDOT
REFERENCE: 200401089

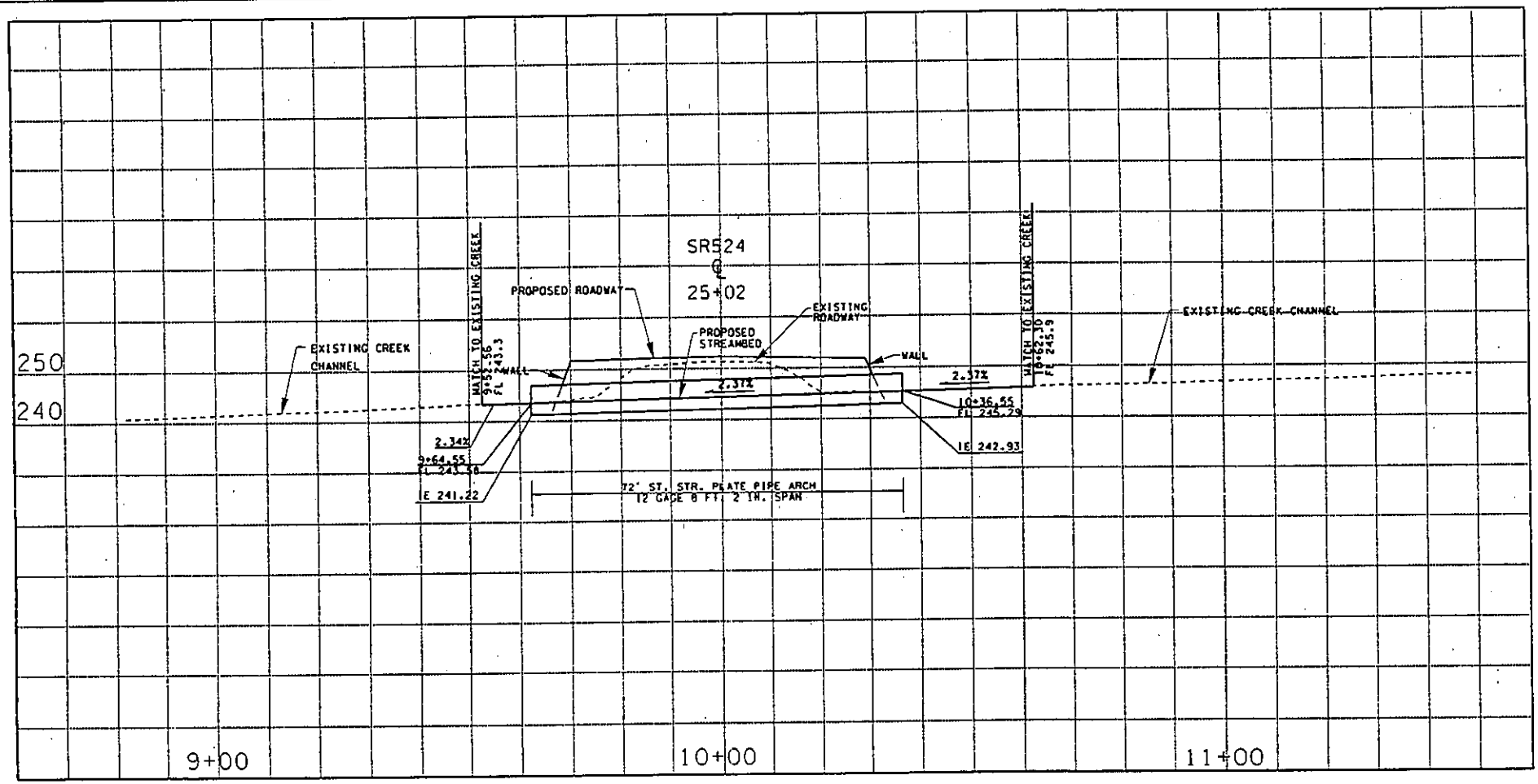
IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK
NEAR: CITY OF WOODINVILLE
IN: SNOHOMISH COUNTY, WA

SHEET 25 OF 33 NOVEMBER 2004

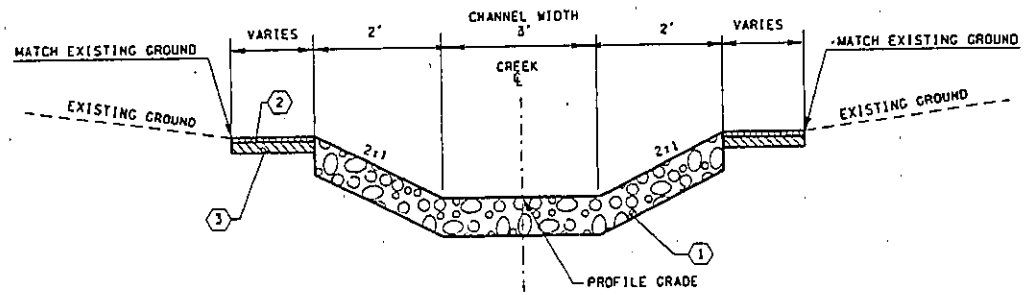
WHISTLE CREEK CULVERT REPLACEMENT PLAN

0 30 60

ALSO SHOWN ON 15



PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW PROJECT: SR 9, SR 522 TO 212TH ST. APPLICANT: WSDOT REFERENCE: 200401089	IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK NEAR: CITY OF WOODINVILLE IN: SNOHOMISH COUNTY, WA SHEET 26 OF 33 NOVEMBER 2004	WHISTLE CREEK CULVERT REPLACEMENT PROFILE



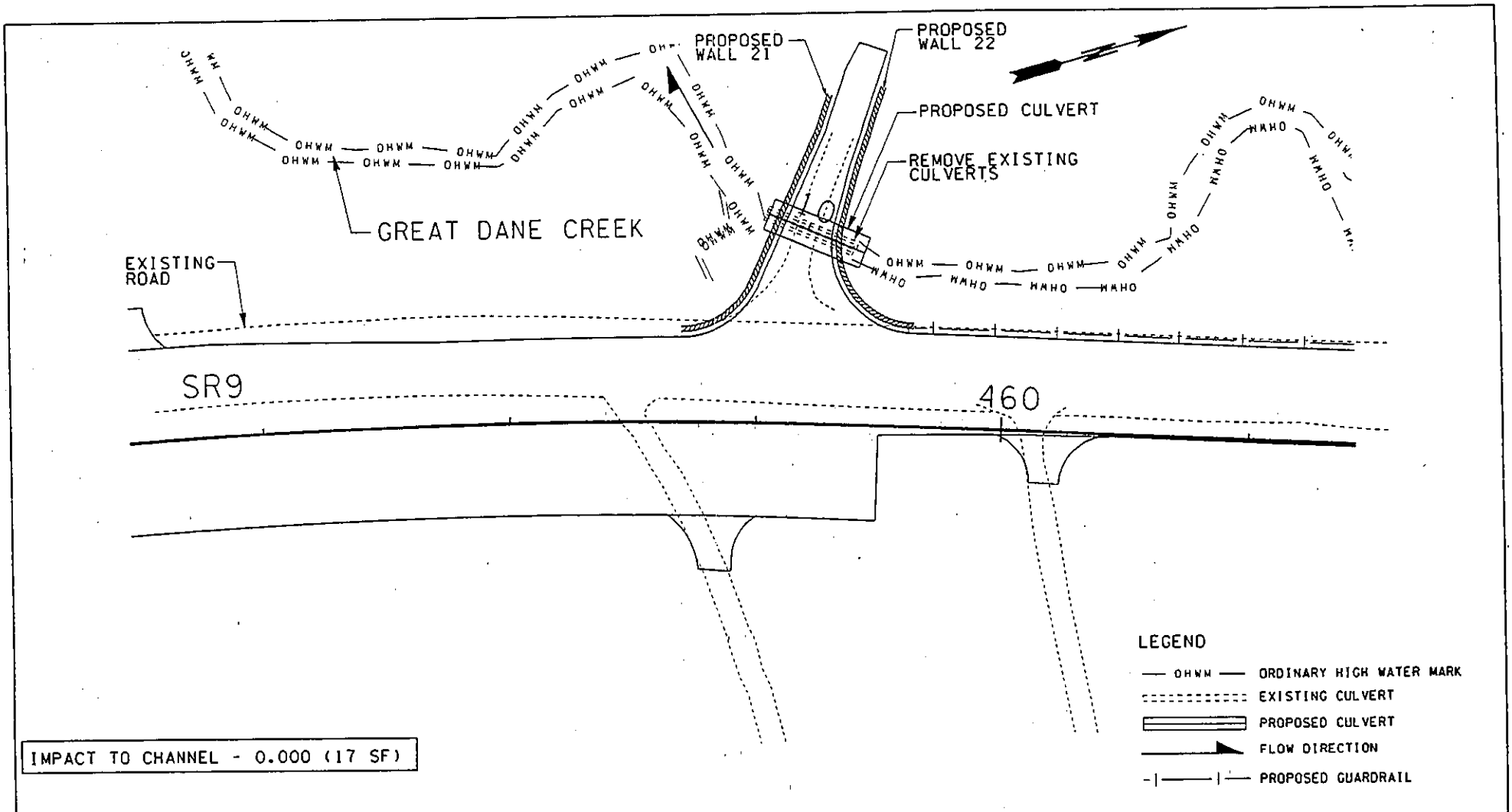
WHISTLE CREEK SECTION

Sta. 9+52.56 to 9+64.55
Sta. 10+36.55 to 10+62.30

LEGEND

1	2' DEPTH OF STREAMBED COBBLES FOR WHISTLE CREEK
2	0.25' DEPTH OF SOIL AMENDMENT
3	0.75' DEPTH OF TOPSOIL TYPE B

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW PROJECT: SR 9, SR 522 TO 212TH ST. APPLICANT: WSDOT REFERENCE: 200401089	IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK NEAR: CITY OF WOODINVILLE IN: SNOHOMISH COUNTY, WA SHEET 27 OF 33 NOVEMBER 2004	WHISTLE CREEK CULVERT REPLACEMENT CROSS SECTION NOT TO SCALE



IMPACT TO CHANNEL - 0.000 (17 SF)

EXISTING CULVERT DATA

SR9 STA. 459+19 (LT)
2 @ 38.6' LONG
2 @ 30" REINFORCED CONCRETE PIPE

PROPOSED CULVERT DATA

SR9 STA. 459+19 (LT)
NO SLOPE DESIGN
12'-10" x 8'-4" PIPE ARCH
42' LONG

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW
PROJECT: SR 9, SR 522 TO 212TH ST.
APPLICANT: WSDOT
REFERENCE: 200401089

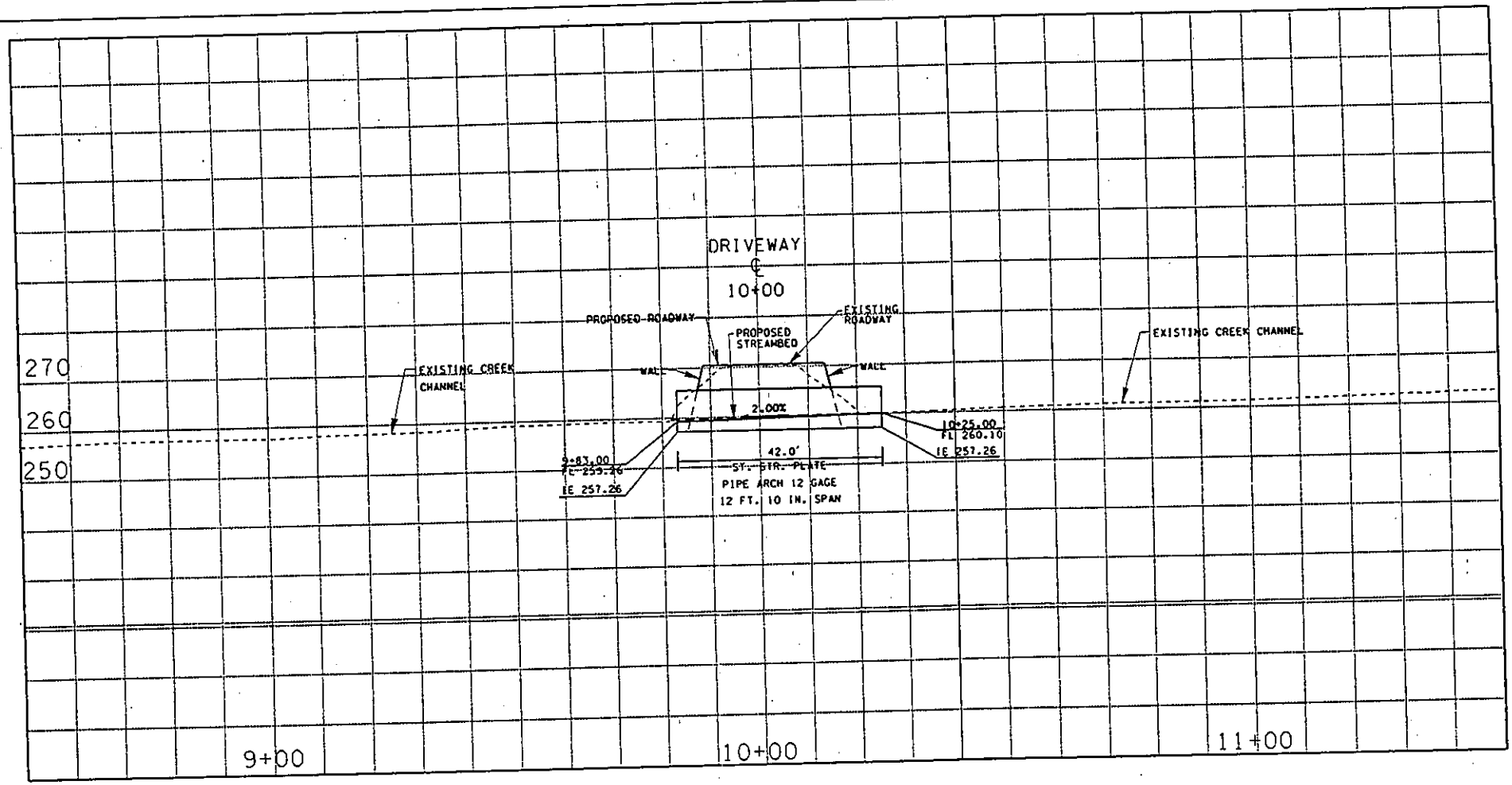
IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK
NEAR: CITY OF WOODINVILLE
IN: SNOHOMISH COUNTY, WA

SHEET 28 OF 33 NOVEMBER 2004

GREAT DANE CREEK CULVERT REPLACEMENT PLAN

0 30 60

ALSO SHOWN ON 16



PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW

PROJECT: SR 9, SR 522 TO 212TH ST.

APPLICANT: WSDOT

REFERENCE: 200401089

IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK

NEAR: CITY OF WOODINVILLE

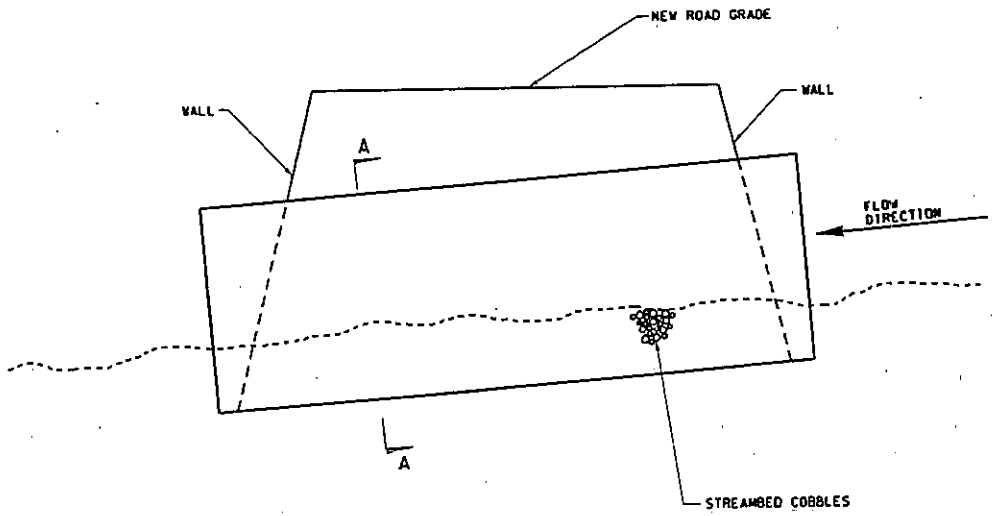
IN: SNOHOMISH COUNTY, WA

SHEET 29 OF 33

NOVEMBER 2004

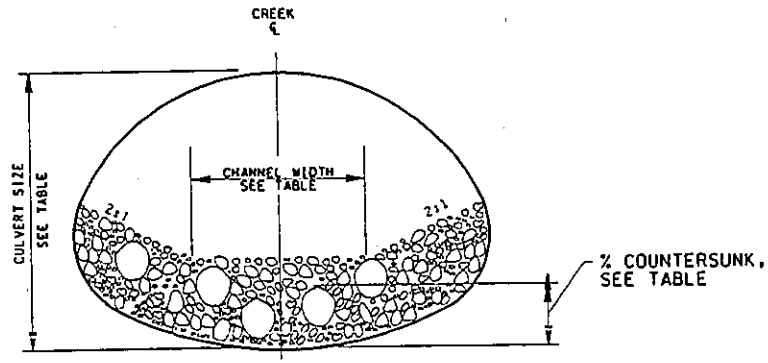
GREAT DANE CREEK CULVERT REPLACEMENT PROFILE

TABLE					
CULVERT STATION	CULVERT SIZE & TYPE	L (FT)	SLOPE FT/FT	CHANNEL WIDTH (FT)	% COUNTERSUNK
SR 524 25+02	8'2" X 5'9" PIPE ARCH	72	0.0237	3	41



TYPICAL LOW FLOW STREAMBED PROFILE FOR STREAM SIMULATION DESIGN

NTS



TYPICAL CULVERT STREAMBED SECTION A-A

NTS

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW

PROJECT: SR 9, SR 522 TO 212TH ST.

APPLICANT: WSDOT

REFERENCE: 200401089

IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK

NEAR: CITY OF WOODINVILLE

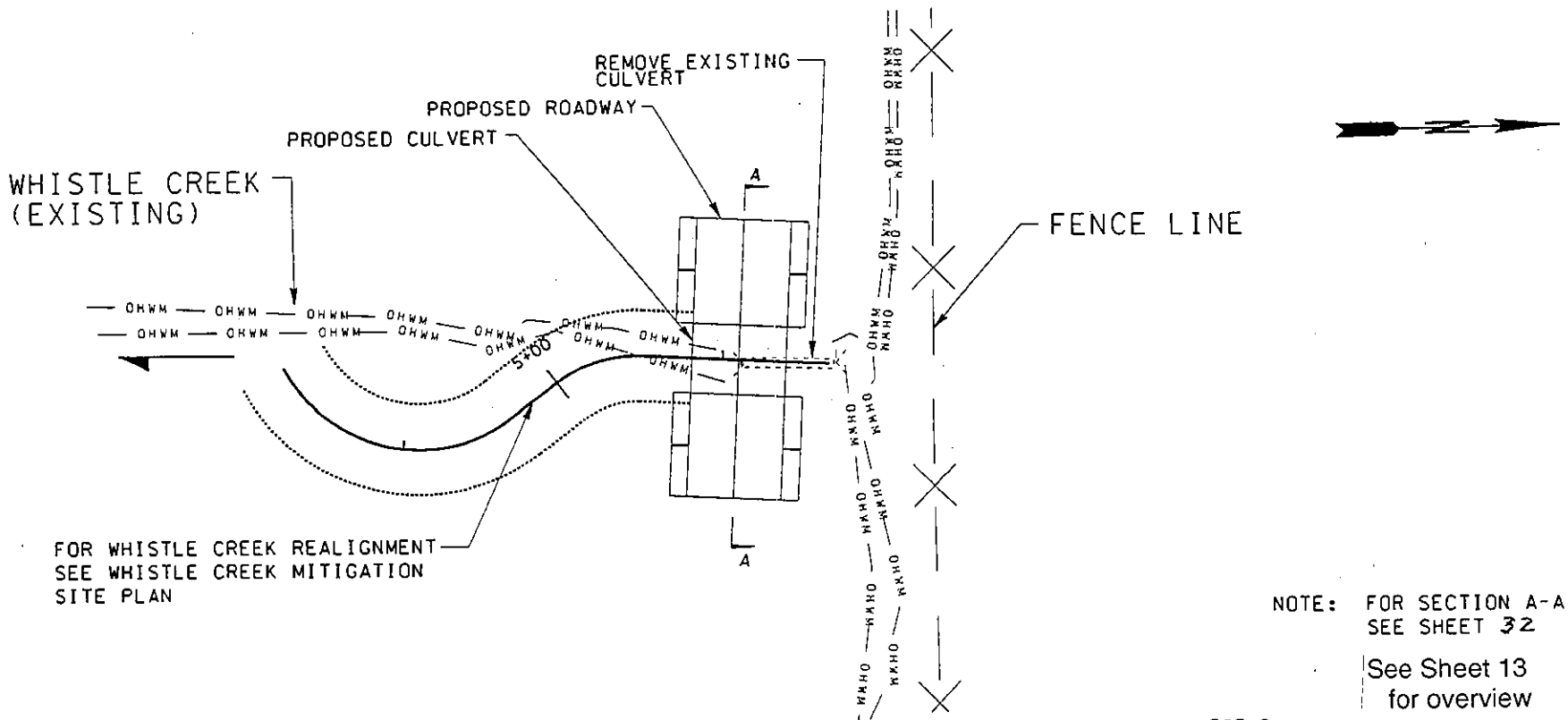
IN: SNOHOMISH COUNTY, WA

SHEET 30 OF 33

NOVEMBER 2004

STREAMBED DETAILS

NOT TO SCALE



NOTE: FOR SECTION A-A, SEE SHEET 32

See Sheet 13 for overview

LEGEND

- OHWM — ORDINARY HIGH WATER MARK
- EXISTING CULVERT
- PROPOSED CULVERT
- FLOW DIRECTION
- 2'X2'X6' CONC. ECOLOGY BLOCK

IMPACT TO CHANNEL - 0.00 ACRES (16.5 SF)

EXISTING CULVERT DATA

STA. 5+27.4
11' LONG
30" DIA CMP

PROPOSED CULVERT DATA

STA. 5+21.87
NO SLOPES DESIGN
6' X 4' BOX CULVERT
11' LONG

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW

PROJECT: SR 9, SR 522 TO 212TH ST.

APPLICANT: WSDOT

REFERENCE: 200401089

IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK

NEAR: CITY OF WOODINVILLE

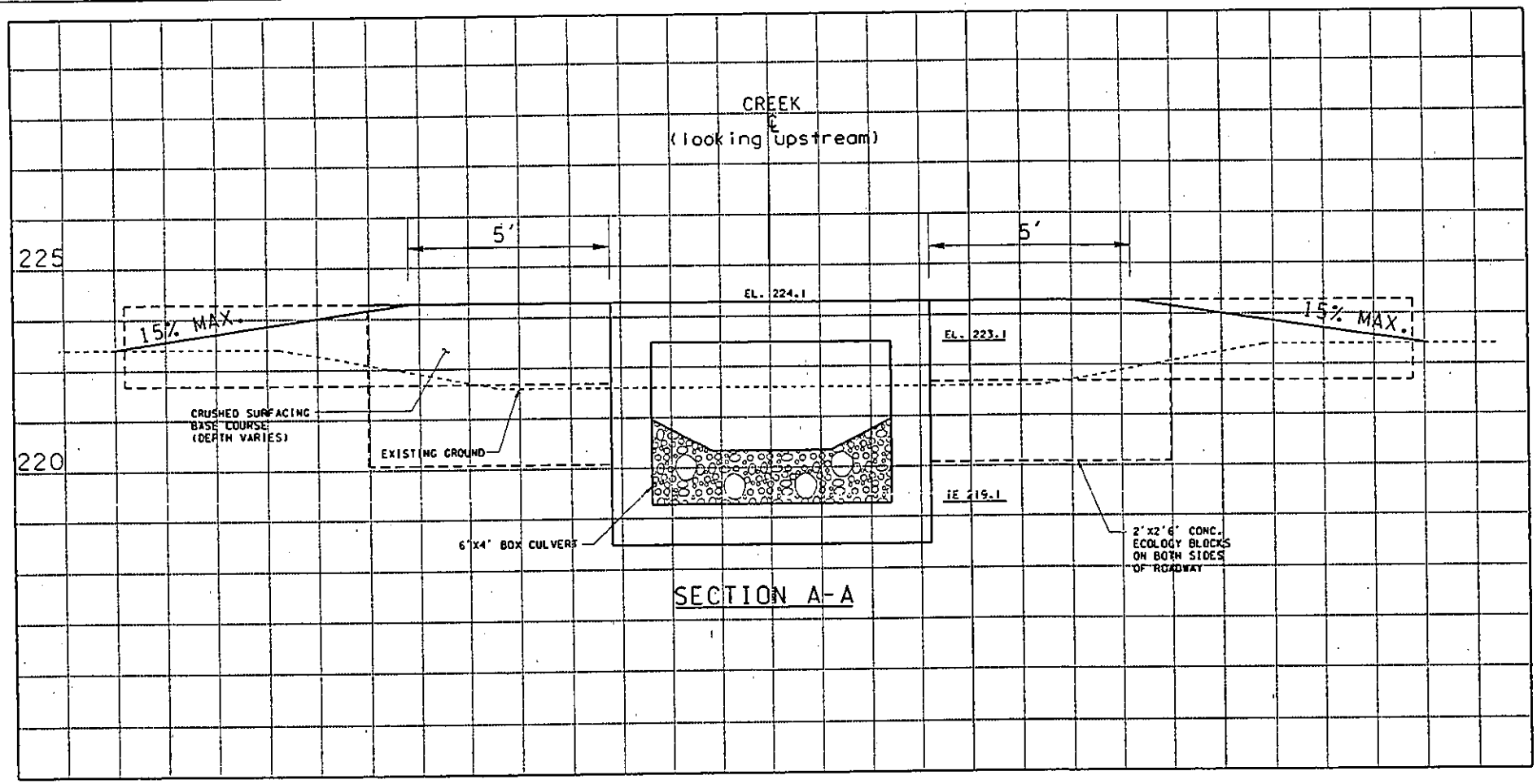
IN: SNOHOMISH COUNTY, WA

SHEET 31 OF 33

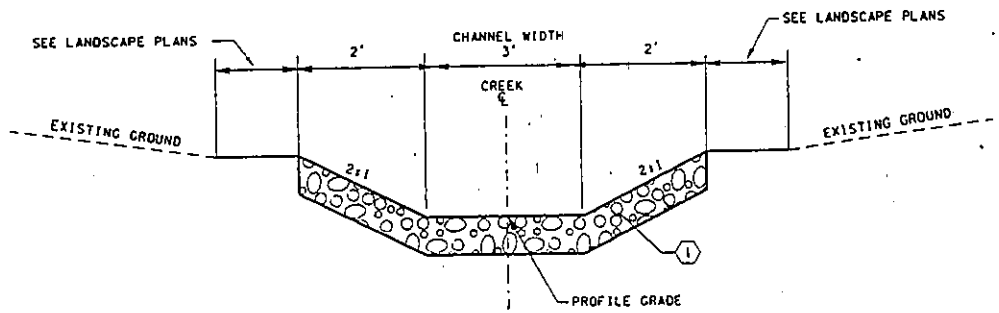
NOVEMBER 2004

WHISTLE CREEK MITIGATION SITE CULVERT REPLACEMENT PLAN

0 10 20



PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW PROJECT: SR 9, SR 522 TO 212TH ST. APPLICANT: WSDOT REFERENCE: 200401089	IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK NEAR: CITY OF WOODINVILLE IN: SNOHOMISH COUNTY, WA SHEET 32 OF 33 NOVEMBER 2004	WHISTLE CREEK MITIGATION SITE CULVERT REPLACEMENT DETAIL



WHISTLE CREEK MITIGATION SITE SECTION

Sta. 5+27.37 to 5+32.37

LEGEND

1 2' DEPTH OF STREAMBED COBBLES FOR WHISTLE CREEK

PURPOSE: IMPROVE SAFETY AND TRAFFIC FLOW PROJECT: SR 9, SR 522 TO 212TH ST. APPLICANT: WSDOT REFERENCE: 200401089	IN: WETLANDS ADJACENT TO LITTLE BEAR CREEK NEAR: CITY OF WOODINVILLE IN: SNOHOMISH COUNTY, WA SHEET 33 OF 33 NOVEMBER 2004	WHISTLE CREEK MITIGATION SITE CULVERT REPLACEMENT CROSS SECTION NOT TO SCALE

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: December 9, 2004

Notice is herby 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. 200401089 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 herby 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