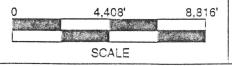


SEATTLE - TACOMA INTERNATIONAL AIRPORT MASTER PLAN IMPROVEMENTS



IN: SECTIONS 20, 21, 28, 29, 32, AND 33 TOWNSHIP 23N, RANGE 4E IN: SECTION 4,5, TOWNSHIP 22N, RANGE 4E COUNTY OF: KING STATE: WA APPLICATION BY: PORT OF SEATTLE SHEET 2 of 44 DECEMBER 1996

VEGETATION	COVER	TYPES	IMPACTED
	/4000	-01	

					(ACRES)	
WETLAND NUMBER	CLASSIFICATION <sup>1</sup>	WETLAND SIZE (ACRES)	TOTAL IMPACT (ACRES)	T <sup>5</sup> FORESTED	SHRUB- SCRUB	EMERGENT
1	Forested	0.07	0.07	0.07	_	
2	Forested/Emergent	,				
	(60/40)	0.74	0.74	0.44	_	0.29
3	Forested	0.56	0.19	0.19	-	.—
4	Forested	5.02	0.46	0.46	_	_
5	Forested/Shrub-Scrub	4.58	1.69	0.17	1.52	_
	(10/90)					
6	Shrub-Scrub	0.87	0.00	_	_	_
7	Forested/Open					
	Water/Emergent	6.70	0.00	_	_	_
8	Shrub-Scrub/Emergent	4.95	0.00	_	_	_
9	Emergent/Forested					
	(60/40)	2.85	0.13	0.05	-	0.08
10	Shrub-Scrub	0.31	0.00	_	_	_
11	Forested/Emergent					
	(80/20)	0.50	0.47	0.37	-	0.09
12	Emergent/Forested					
	(80/20)	0.21	0.21	0.04	_	0.16
13	Emergent	0.05	0.05	_		0.05
14	Forested	0.19	0.19	0.19	_	-
15	Emergent	0.28	0.28	_	_	0.28
16	Emergent	0.06	0.06	_	_	0.06
17	Emergent	0.03	0.03	_	_	0.03
18	Forested	0.12	0.12	0.12	_	_
19	Forested	0.57	0.57	0.57	_	-
20	Shrub-Scrub/Emergent					
	(90/10)	0.06	0.06	- ,	0.06	0.01
21	Forested	0.22	0.22	0.22	_	-
22	Emergent/Shrub-Scrub					
	(90/10)	0.06	0.06	-	0.01	0.05
23	Emergent	0.78	0.78	_	_	0.78
24	Emergent	0.14	0.14	-	_	0.14
25	Forested	0.06	0.06	0.06	-	_
26	Emergent	0.02	0.02	-	_	0.02
27	Emergent <sup>2</sup>	0.00	0.00	_	_	_
28	Open Water/					
	Shrub-Scrub (O/100)	18.10	0.06	_	0.06	_
29	Forested	0.74	0.74	0.74	_	_

PURPOSE: IMPLEMENTATION OF THE MASTER PLAN UPDATE SEATTLE-TACOMA INTERNATIONAL AIRPORT

CLASSIFICATION, SIZE AND IMPACTS TO WETLANDS IN THE PROPOSED SEATTLE - TACOMA INTERNATIONAL AIRPORT MASTER PLAN UPDATE STUDY AREA

### IMPACT/MITIGATION SITES

COUNTY OF: KING STATE: WA APPLICATION BY: PORT OF SEATTLE SHEET 3 of 44 DECEMBER 1996

VEGETATION	COVER	<b>TYPES</b>	<b>IMPACTED</b>

					(ACRES)	
WETLAND NUMBER	CLASSIFICATION <sup>1</sup>	WETLAND SIZE (ACRES)	TOTAL IMPACT (ACRES)	FORESTED	SHRUB- SCRUB	EMERGENT
30	Forested/Shrub-Scrub					
	(80/20)	0.50	0.50	0.40	0.10	
31	Emergent	0.05	0.00	_	_	_
32	Emergent	0.05	0.05	_	_	0.05
33	Forested/Shrub-Scrub/					
	Emergent/Open Water	17.60	0.00	_	_	
34	Open Water	1.40	0.00	•	_	_
35	Emergent	0.21	0.18	_	_	0.18
36	Forested/Emergent	0.30	0.00	_	_	_
37	Forested/Shrub-Scrub					
	(70/30)	2.41	1.68	1.17	_	0.15
38	Emergent/Shrub-Scrub <sup>3</sup>	0.00	0.00	_	_	_
39	Forested	0.07	0.00	_	_	_
40	Forested	0.09	0.09	0.09	_	_
41	Emergent	0.08	0.08	_	_	0.08
42	Emergent	0.50	0.00	_	-	_
43	Emergent/Shrub-Scrub/					
	Forested/Open Water	30.30	0.00		- , , , , ,	_
44	Forested/Shrub-Scrub	0.07	0.00	_	-	
45	Emergent	5.00	0.00	-		_
46	Open Water	0.06	0.00	_	_	_
47	Open Water	0.20	0.00	_	_	
48	Emergent	0.04	0.00	-	-	-
49	Emergent	0.03	0.03	-		0.03
50	Shrub-Scrub	0.12	0.12	-	0.12	-
51	Forested	8.10	0.48	0.48	-	_
52	Forested/Shrub-Scrub					
	(90/10)	1.00	1.00	0.90	0.10	-
53	Forested	0.60	0.60	0.60	_	-
54	Shrub-Scrub/Open Water	25.70	0.00	_	-	_
55	Shrub-Scrub	0.04	0.04	_	0.04	-
TOTAL	4	143.86	12.23	7.34	2.01	2.88

All wetland are palustrine based on USFWS classification system (Cowardin et al. 1979). Where more than one cover type, the percent impact to each cover type is shown in parenthesis.

Fill of this wetland completed with an approved Section 404 Nationwide 26 permit.

This wetland was determined not to be a regulated wetland by the City of Sea-Tac and the Corps of Engineers.

Values are rounded to two significant figures. Actual values differ slightly due to the effects of rounding.

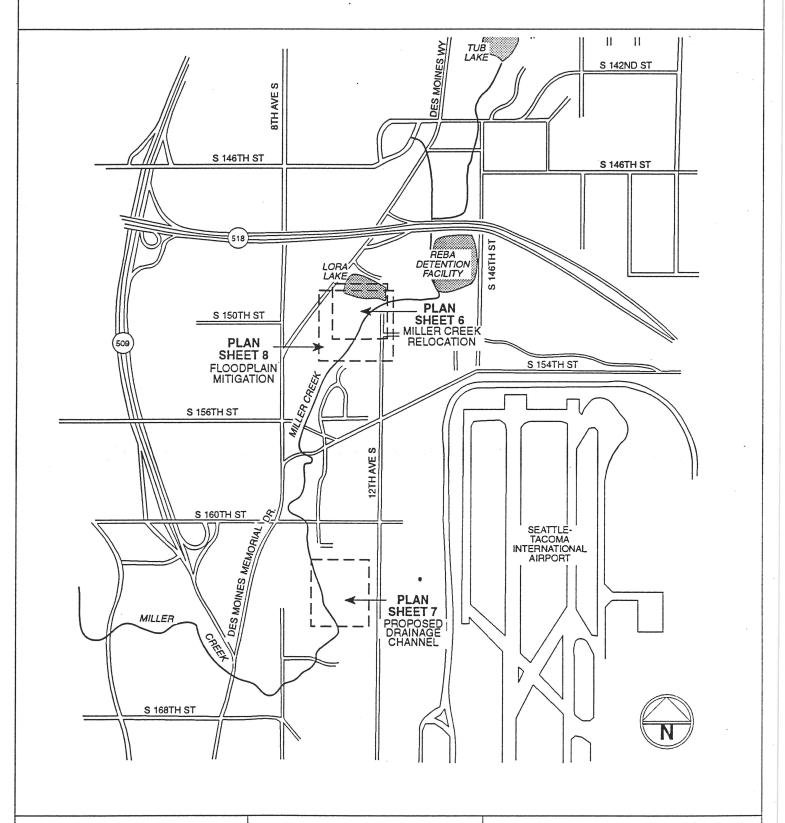
PURPOSE: IMPLEMENTATION OF THE

MASTER PLAN UPDATE SEATTLE-TACOMA INTERNATIONAL AIRPORT

CLASSIFICATION, SIZE AND IMPACTS TO WETLANDS IN THE PROPOSED SEATTLE - TACOMA INTERNATIONAL AIRPORT MASTER PLAN UPDATE STUDY AREA

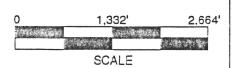
### IMPACT/MITIGATION SITES

COUNTY OF: KING STATE: WA APPLICATION BY: PORT OF SEATTLE SHEET 4 of 44 DECEMBER 1996



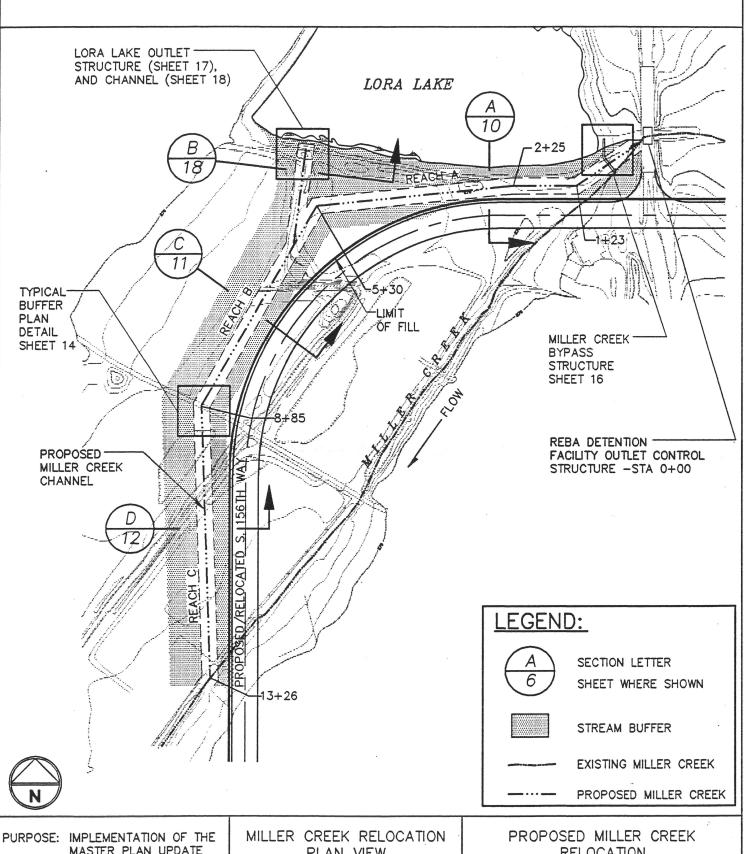
PURPOSE: IMPLEMENTATION OF THE
MASTER PLAN UPDATE
SEATTLE-TACOMA
INTERNATIONAL AIRPORT

# MILLER CREEK RELOCATION VICINITY MAP



# PROPOSED MILLER CREEK RELOCATION

IN: SECTION 20, TOWNSHIP 23N, RANGE 4E COUNTY OF: KING STATE: WA APPLICATION BY: PORT OF SEATTLE SHEET 5 of 44 DECEMBER 1996

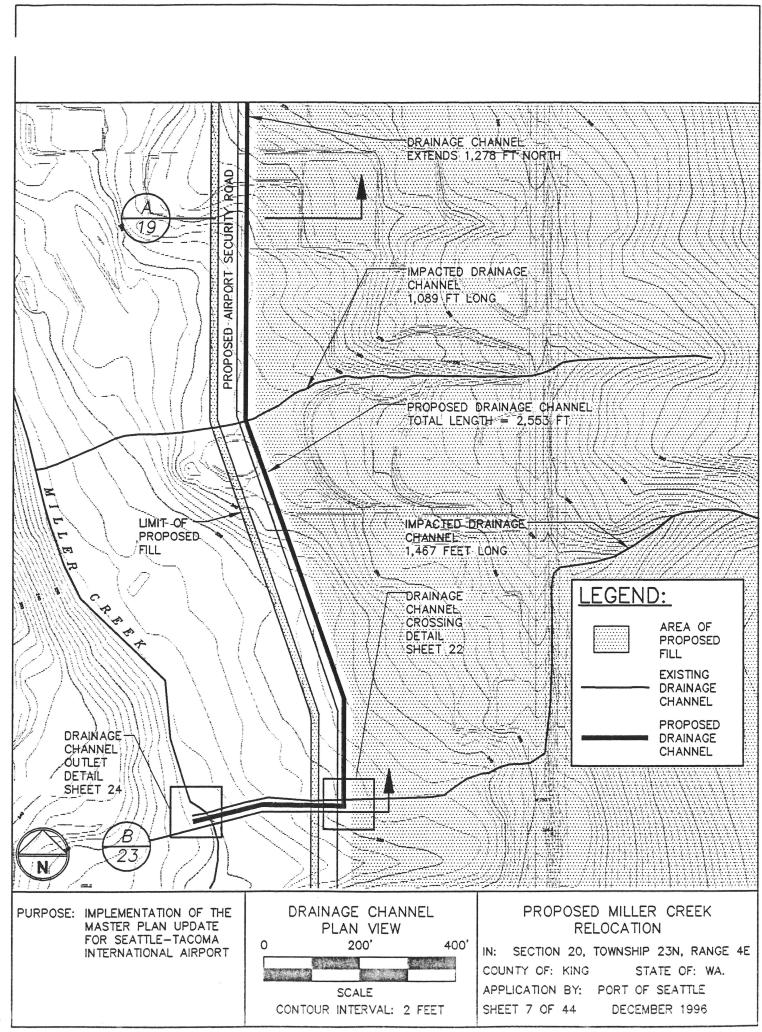


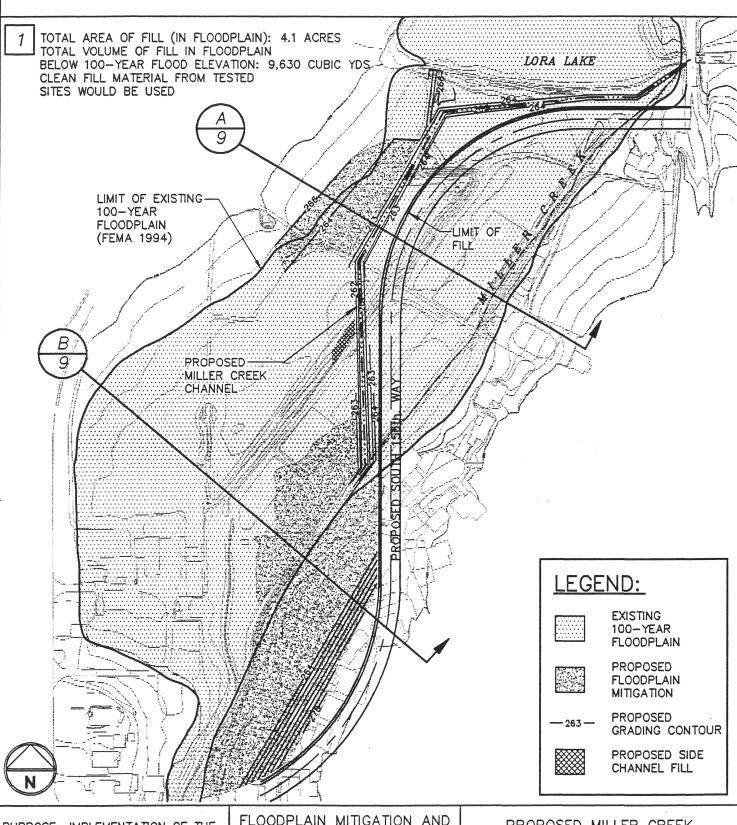
MASTER PLAN UPDATE FOR SEATTLE-TACOMA INTERNATIONAL AIRPORT PLAN VIEW

150' 300' SCALE CONTOUR INTERVAL: 2 FEET

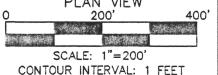
# RELOCATION

IN: SECTION 20, TOWNSHIP 23N, RANGE 4E COUNTY OF: KING STATE OF: WA. -APPLICATION BY: PORT OF SEATTLE SHEET 6 OF 44 DECEMBER 1996





PURPOSE: IMPLEMENTATION OF THE MASTER PLAN UPDATE FOR SEATTLE—TACOMA INTERNATIONAL AIRPORT FLOODPLAIN MITIGATION AND MILLER CREEK GRADING PLAN VIEW

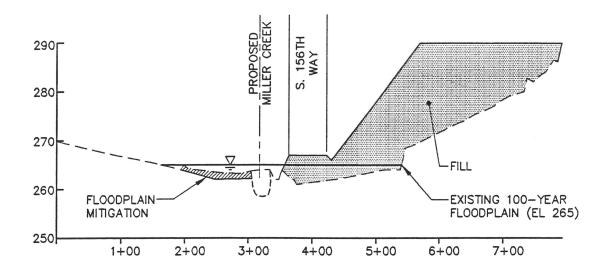


# PROPOSED MILLER CREEK RELOCATION

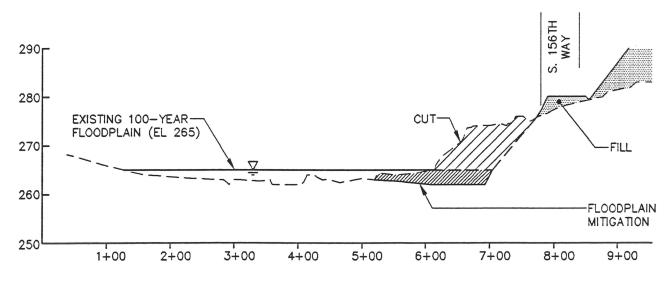
IN: SECTION 20, TOWNSHIP 23N, RANGE 4E
COUNTY OF: KING STATE OF: WA.
APPLICATION BY: PORT OF SEATTLE

SHEET 8 OF 44

DECEMBER 1996



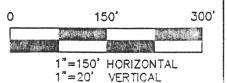




SECTION B

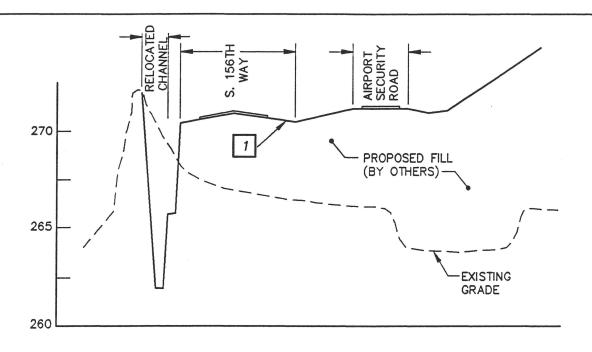
PURPOSE: IMPLEMENTATION OF THE MASTER PLAN UPDATE FOR SEATTLE-TACOMA INTERNATIONAL AIRPORT

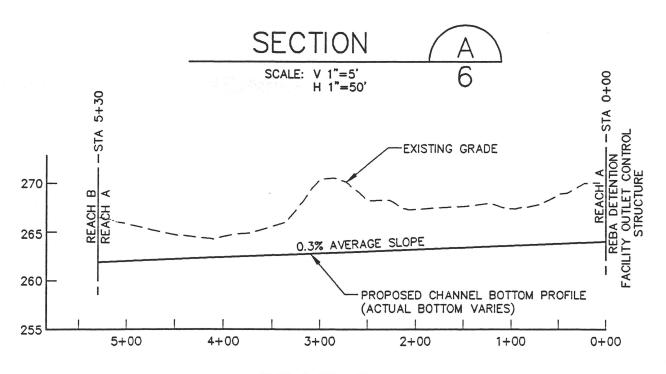
FLOODPLAIN SECTIONS



PROPOSED MITIGATION WETLAND SITE

IN: SECTION 20, TOWNSHIP 23N, RANGE 4E
COUNTY OF: KING STATE OF: WA.
APPLICATION BY: PORT OF SEATTLE
SHEET 9 OF 44 DECEMBER 1996





FILL ELEVATIONS AND FINISHED ROAD GRADES ARE ESTIMATED FOR ILLUSTRATION ONLY.

V 1"=5" H 1"=100'

PURPOSE: IMPLEMENTATION OF THE MASTER PLAN UPDATE

FOR SEATTLE-TACOMA INTERNATIONAL AIRPORT MILLER CREEK MITIGATION CHANNEL - REACH A

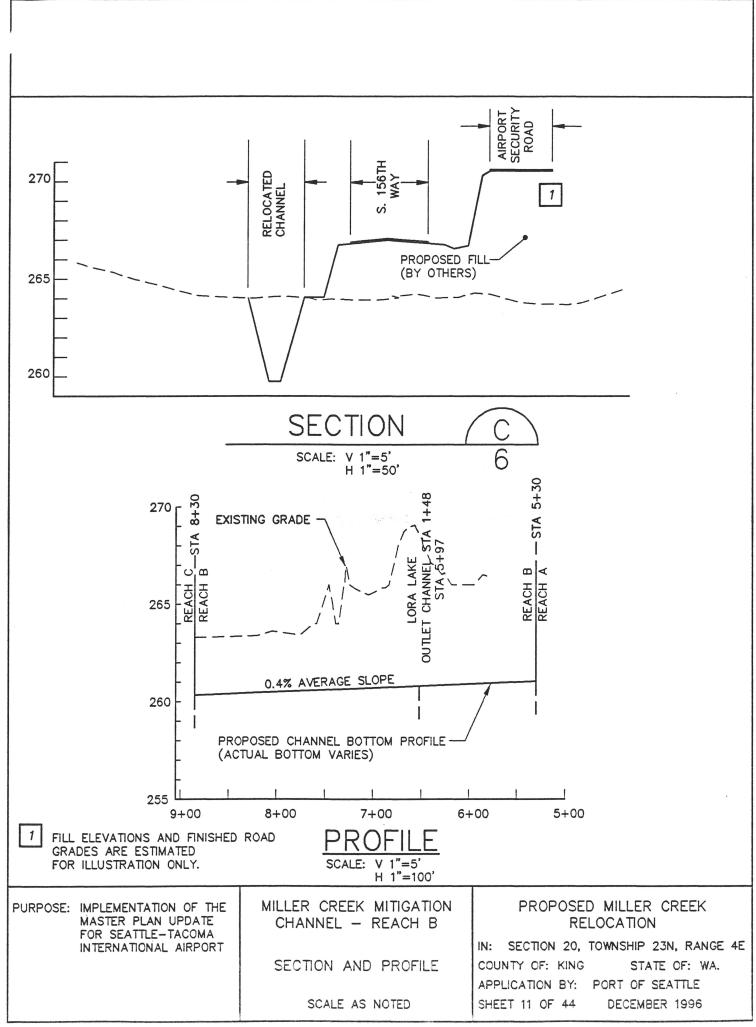
SECTION AND PROFILE

SCALE AS NOTED

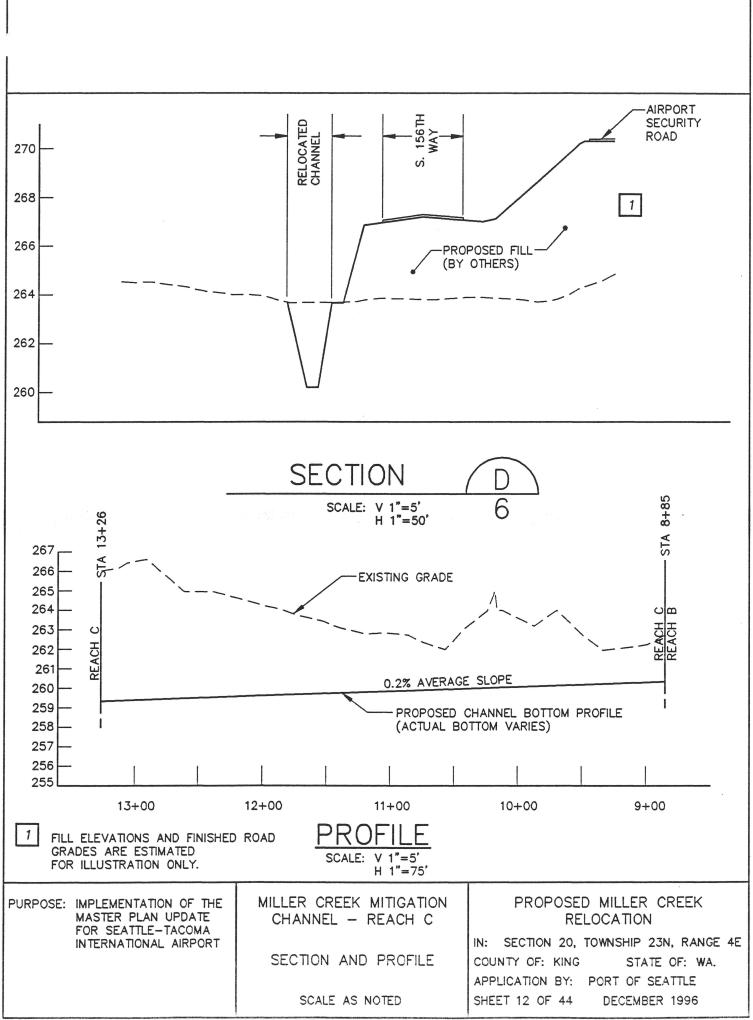
### PROPOSED MILLER CREEK RELOCATION

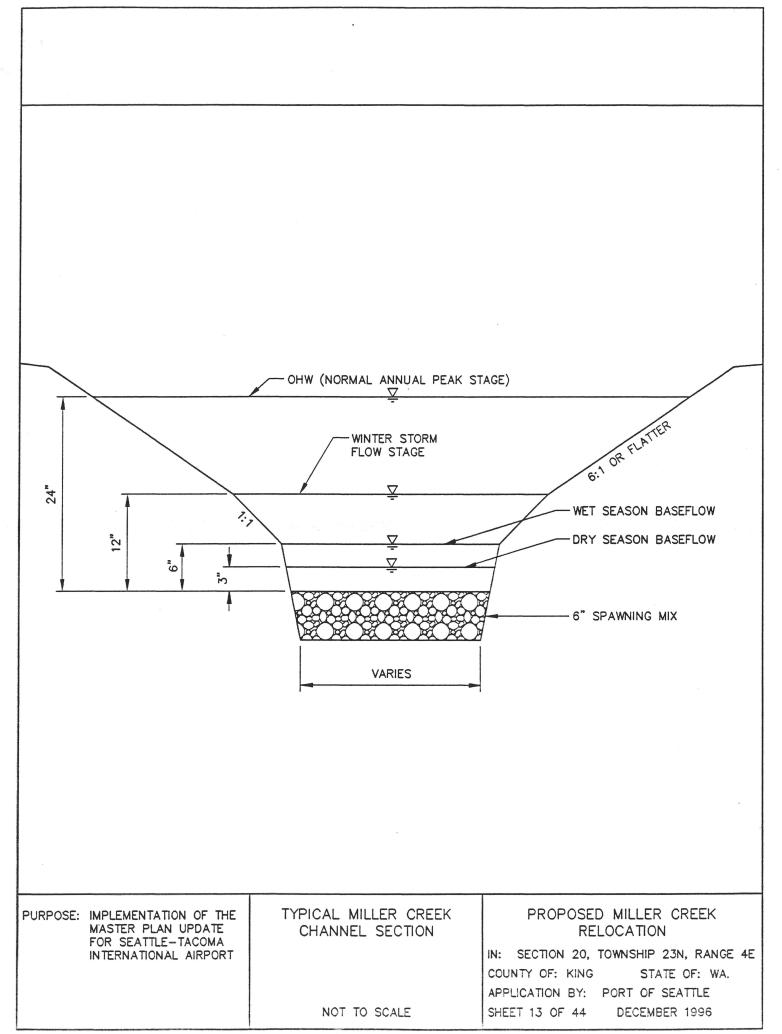
SECTION 20, TOWNSHIP 23N, RANGE 4E COUNTY OF: KING STATE OF: WA. APPLICATION BY: PORT OF SEATTLE

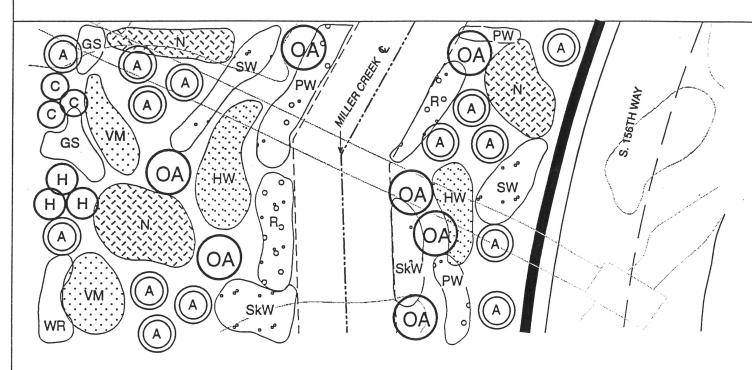
SHEET 10 OF 44 DECEMBER 1996



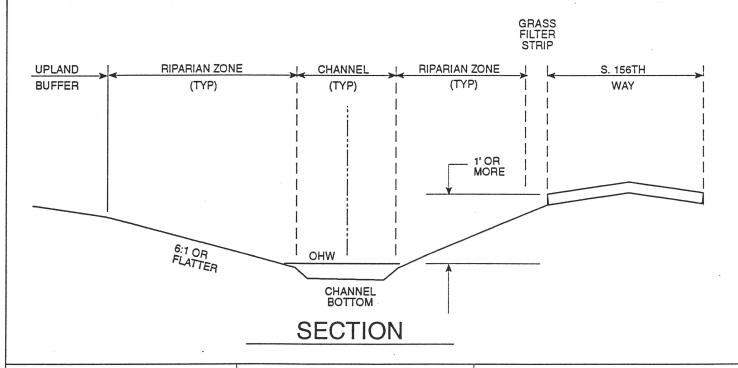
C:\CAD\2921-01\SEA-TAC\28120111





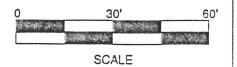


### TYPICAL PLAN



PURPOSE: IMPLEMENTATION OF THE MASTER PLAN UPDATE SEATTLE-TACOMA INTERNATIONAL AIRPORT

TYPICAL BUFFER PLANTING DETAIL - RELOCATED MILLER CREEK



# PROPOSED MILLER CREEK RELOCATION

IN: SECTION 20, TOWNSHIP 23N, RANGE 4E
COUNTY OF: KING STATE: WA
APPLICATION BY: PORT OF SEATTLE
SHEET 14 of 44 DECEMBER 1996

### Plant species proposed for Miller Creek streamside zone

Scientific Name	Common Name	Symbol	Condition	Comments
Trees				
Alnus rubra	red alder	(A)	container	At least 100 trees/
Fraxinus latifolia	Oregon ash	(OA)	container	acre would be planted
Salix lasiandra	Pacific willow	PW	bareroot	in this area.
Shrubs				
Acer circinatum	vine maple	·VM·	container	35 to 50% of
Cornus stolonifera	red osier dogwood	OR .	bareroot	the area would be
Physocarpus capitatus	Pacific ninebark	(N)	container	planted with shrubs.
Salix hookerana	Hooker's willow	(HW)	bareroot/livestak	æ
Salix scouleriana	Scouler's willow	(We')	bareroot/livestak	ke .
Salix sitchensis	Sitka willow	SkW	bareroot/livestak	Ke .

### Plant species proposed for Miller Creek upland buffer

Scientific Name	Common Name	Symbol	Condition	Comments
Trees				
Alnus rubra	red alder	A	container	At least 100 trees/
Corylus cornuta	Western hazelnut	H	container	acre would be planted
Rhamnus purshiana	cascara	$\circ$	container	in the upland buffer.
Shrubs				
Acer circinatum	vine maple	·VM.	container	30 to 40% of the
Gaultheria shallon	salal	GS	container	buffer zone would be
Physocarpus capitatus	Pacific ninebark	(\vert_N\vert_\)	container	planted with shrubs.
Rosa woodsii	Wood's rose	WR	container	

PURPOSE: IMPLEMENTATION OF THE MASTER PLAN UPDATE SEATTLE-TACOMA

INTERNATIONAL AIRPORT

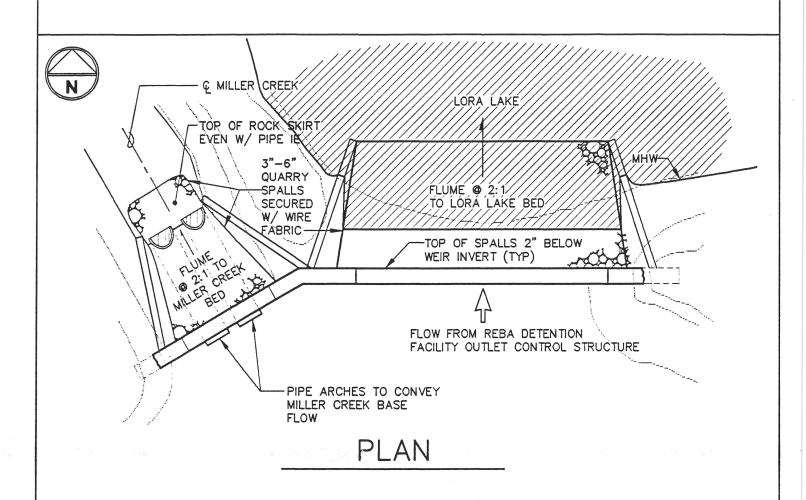
PLANTING SCHEDULE - RELOCATED MILLER CREEK

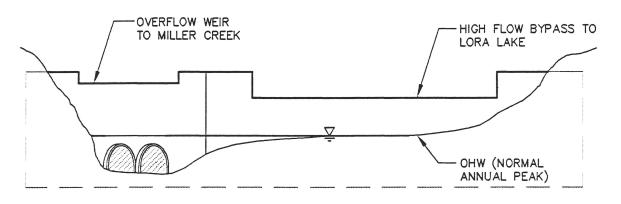
PROPOSED MILLER CREEK RELOCATION

IN: SECTION 20, TOWNSHIP 23N, RANGE 4E COUNTY OF: KING STATE: WA

APPLICATION BY: PORT OF SEATTLE

SHEET 15 of 44 DECEMBER 1996

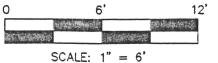




## **ELEVATION**

PURPOSE: IMPLEMENTATION OF THE MASTER PLAN UPDATE FOR SEATTLE-TACOMA INTERNATIONAL AIRPORT

MILLER CREEK HIGH FLOW BYPASS STRUCTURE PLAN & ELEVATION

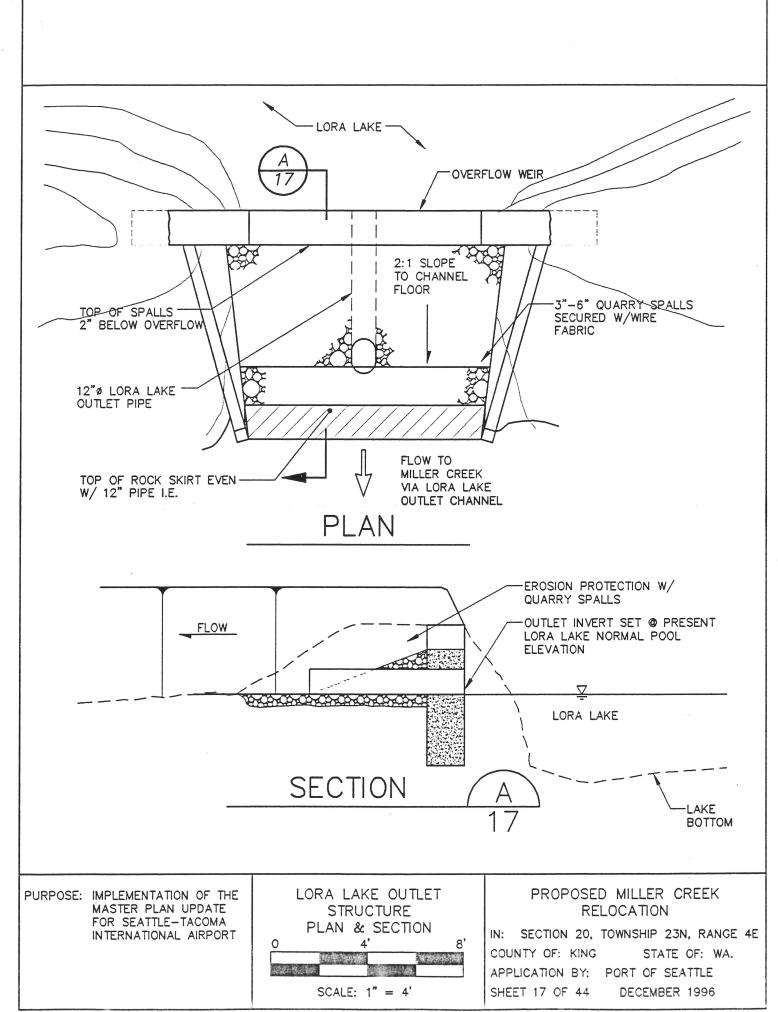


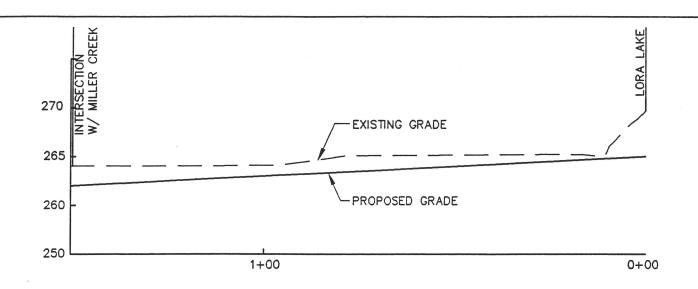
# PROPOSED MILLER CREEK RELOCATION

IN: SECTION 20, TOWNSHIP 23N, RANGE 4E
COUNTY OF: KING STATE OF: WA.
APPLICATION BY: PORT OF SEATTLE

SHEET 16 OF 44 DEC

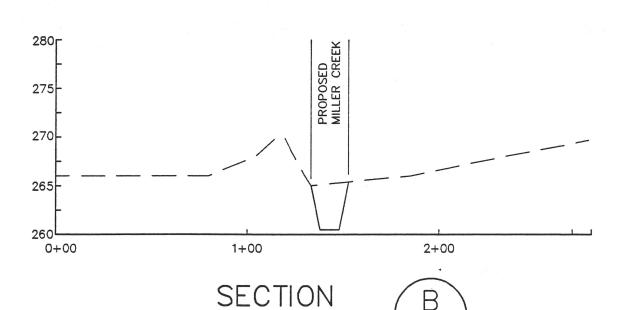
DECEMBER 1996







H: 1"=25' V: 1"=10'



PURPOSE: IMPLEMENTATION OF THE

MASTER PLAN UPDATE FOR SEATTLE-TACOMA INTERNATIONAL AIRPORT LORA LAKE OUTLET CHANNEL DETAIL PROFILE AND SECTION

H: 1"=50' V: 1"=10'

SCALE AS NOTED

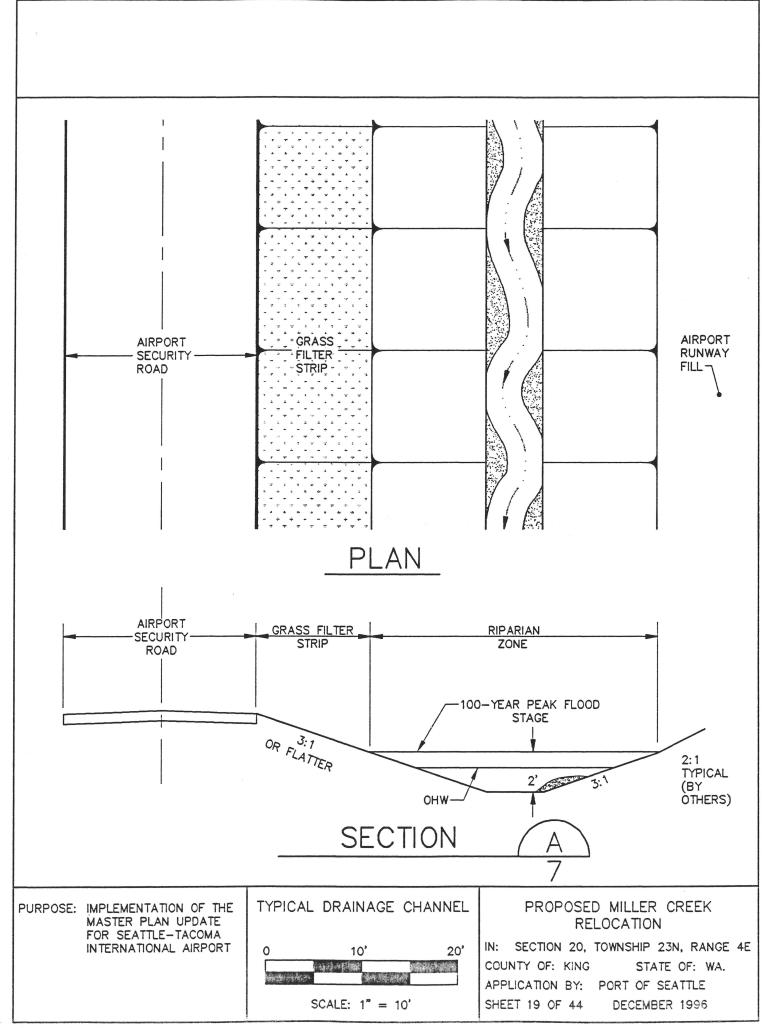
# PROPOSED MILLER CREEK RELOCATION

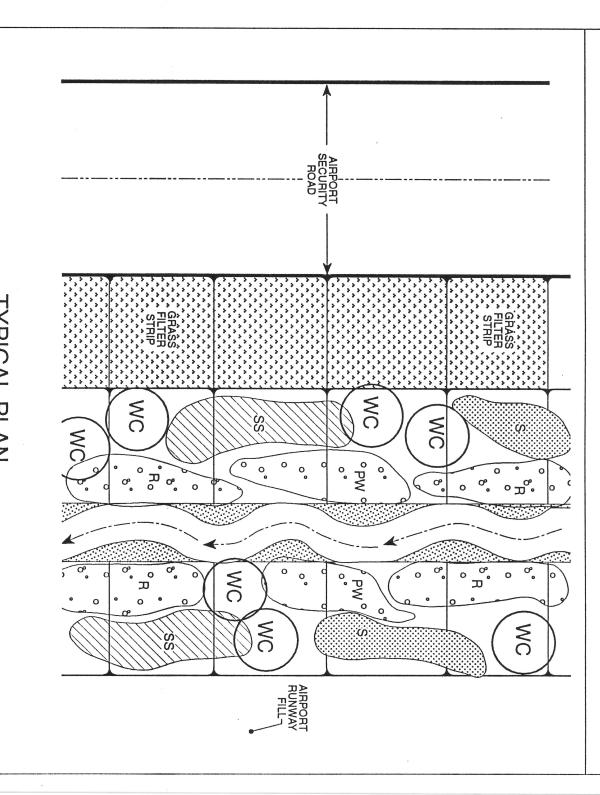
IN: SECTION 20, TOWNSHIP 23N, RANGE 4E COUNTY OF: KING STATE OF: WA. APPLICATION BY: PORT OF SEATTLE

DECEMBER 1996

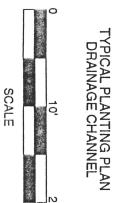
SHEET 18 OF 44

C: \CAD\2921-01\SEA-TAC\29120118





PURPOSE: IMPLEMENTATION OF THE MASTER PLAN UPDATE SEATTLE-TACOMA INTERNATIONAL AIRPORT



# PROPOSED MILLER CREEK RELOCATION

IN: SECTION 20, TOWNSHIP 23N, RANGE 4E COUNTY OF: KING STATE: WA APPLICATION BY: PORT OF SEATTLE SHEET 20 of 44 DECEMBER 1996

### Plant species proposed for drainage channel plantings

Scientific Name	Common Name	Symbol	Condition	Comments
Shrubs				
Cornus stolonifera	red osier dogwood	OR.	container	50 to 70% of these
Pyrus fusca	Western crabapple	(wc)	container	areas would be
Rubus spectabilis	salmonberry	S	bareroot/livestake	planted with shrubs.
Salix lasiandra	Pacific willow	PW	bareroot/livestake	
Salix scouleriana	Scouler's willow	SW	bareroot/livestake	

PURPOSE: IMPLEMENTATION OF THE MASTER PLAN UPDATE SEATTLE-TACOMA INTERNATIONAL AIRPORT

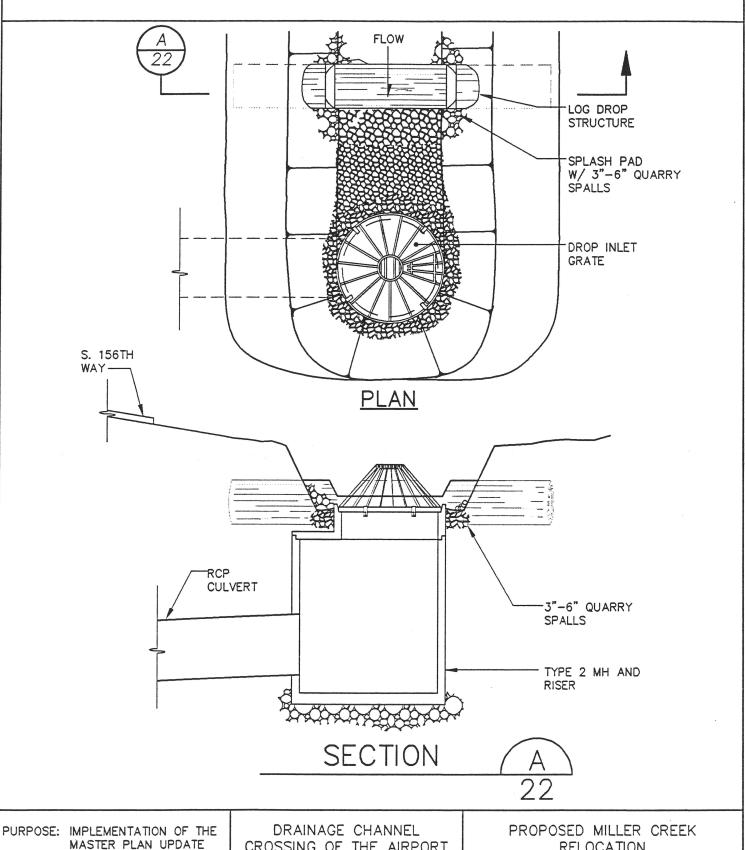
TYPICAL PLANTING PLAN SCHEDULE - DRAINAGE CHANNEL

# PROPOSED MILLER CREEK RELOCATION

IN: SECTION 20, TOWNSHIP 23N, RANGE 4E COUNTY OF: KING STATE: WA APPLICATION BY: PORT OF SEATTLE

SHEET 21 of 44

DECEMBER 1996



FOR SEATTLE-TACOMA INTERNATIONAL AIRPORT

CROSSING OF THE AIRPORT SECURITY ROAD

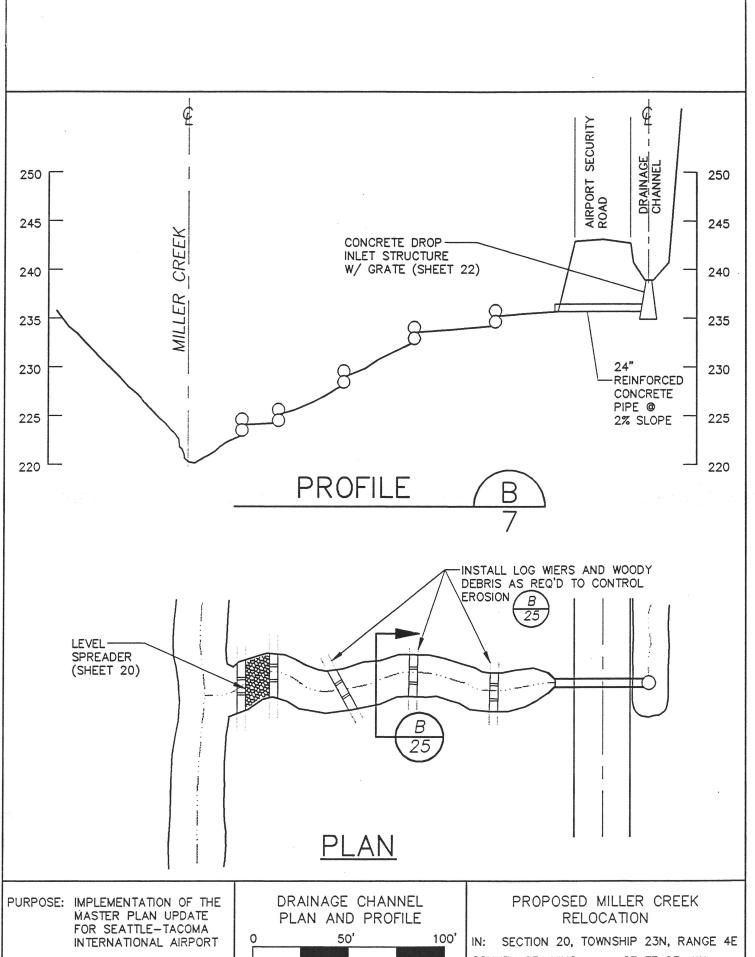
NOT TO SCALE

# RELOCATION

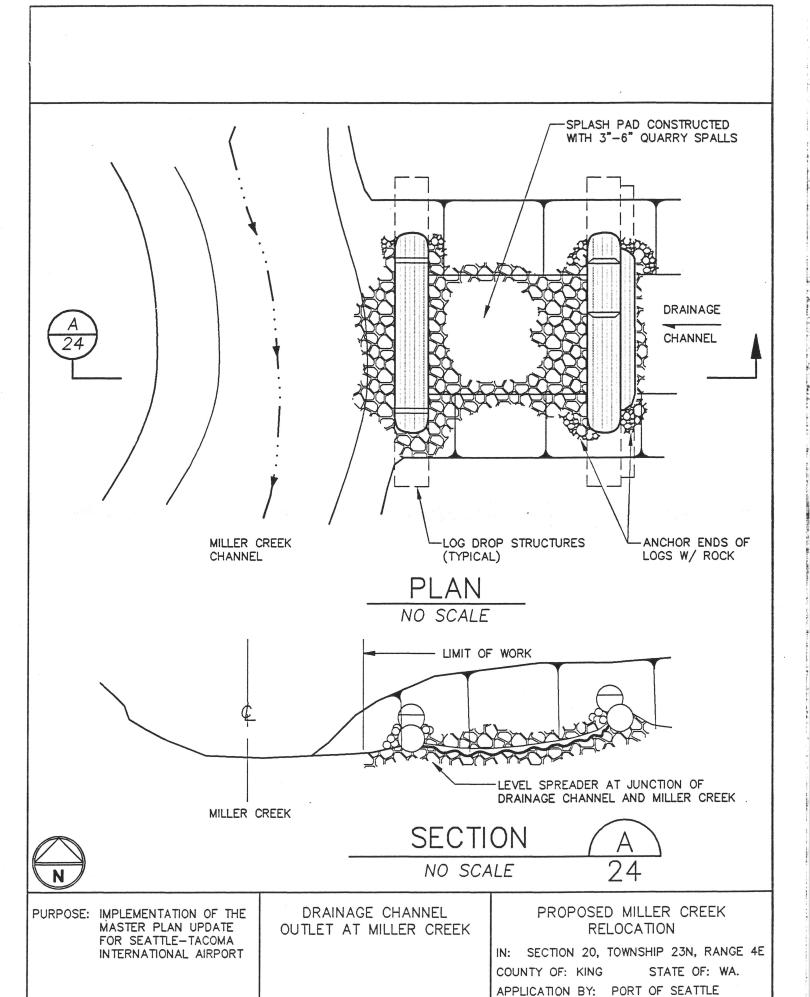
IN: SECTION 20, TOWNSHIP 23N, RANGE 4E COUNTY OF: KING STATE OF: WA. APPLICATION BY: PORT OF SEATTLE

SHEET 22 OF 44

DECEMBER 1996



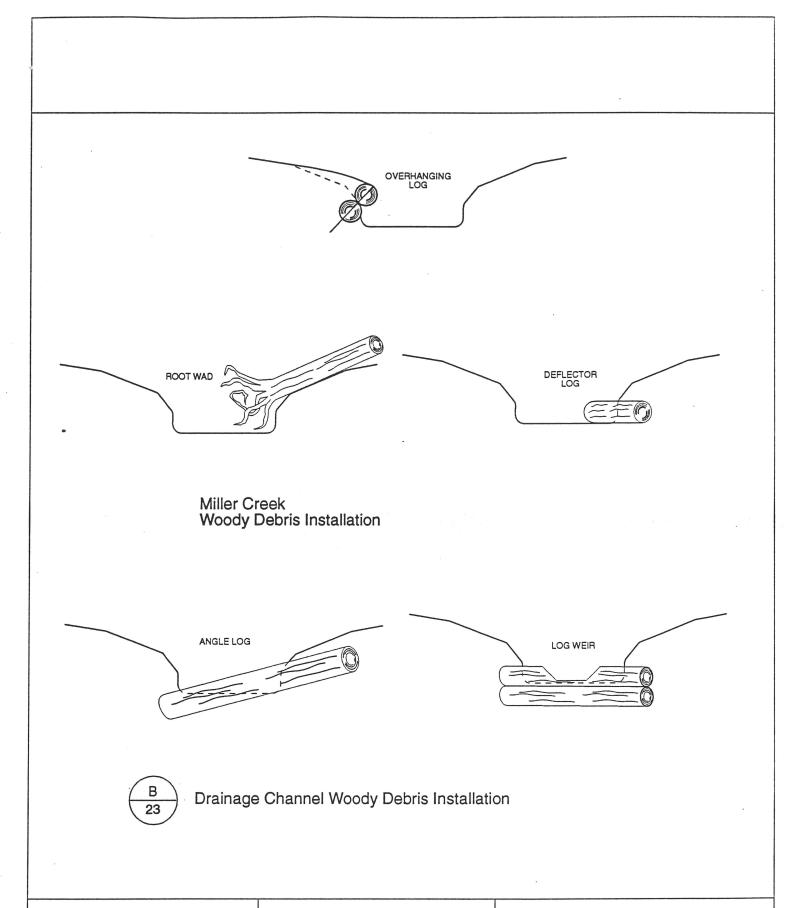
SCALE: 1"=50' HORIZONTAL 1"=5' VERTICAL IN: SECTION 20, TOWNSHIP 23N, RANGE 4E
COUNTY OF: KING STATE OF: WA.
APPLICATION BY: PORT OF SEATTLE
SHEET 23 OF 44 DECEMBER 1996



SHEET 24 OF 44

DECEMBER 1996

C: \CAD\2921-01\SEA-TAC\29120120



PURPOSE: IMPLEMENTATION OF THE MASTER PLAN UPDATE SEATTLE-TACOMA

INTERNATIONAL AIRPORT

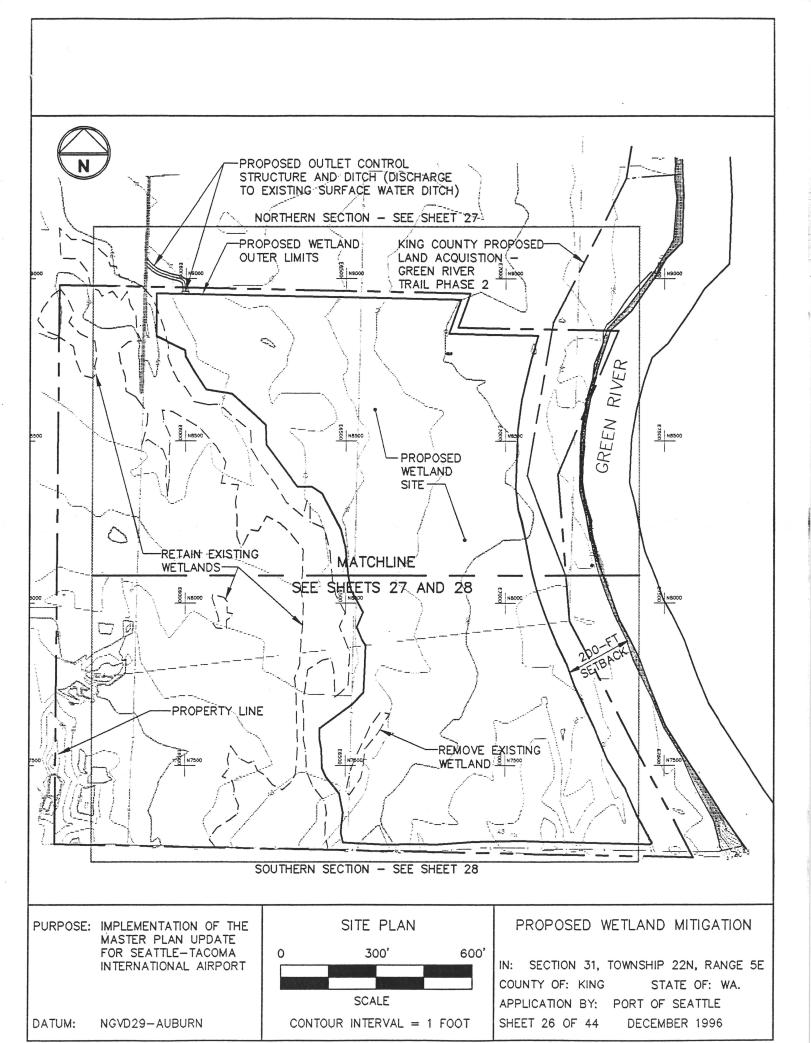
WOODY DEBRIS **INSTALLATION DETAILS**  PROPOSED MILLER CREEK RELOCATION

IN: SECTION 20, TOWNSHIP 23N, RANGE 4E COUNTY OF: KING STATE: WA

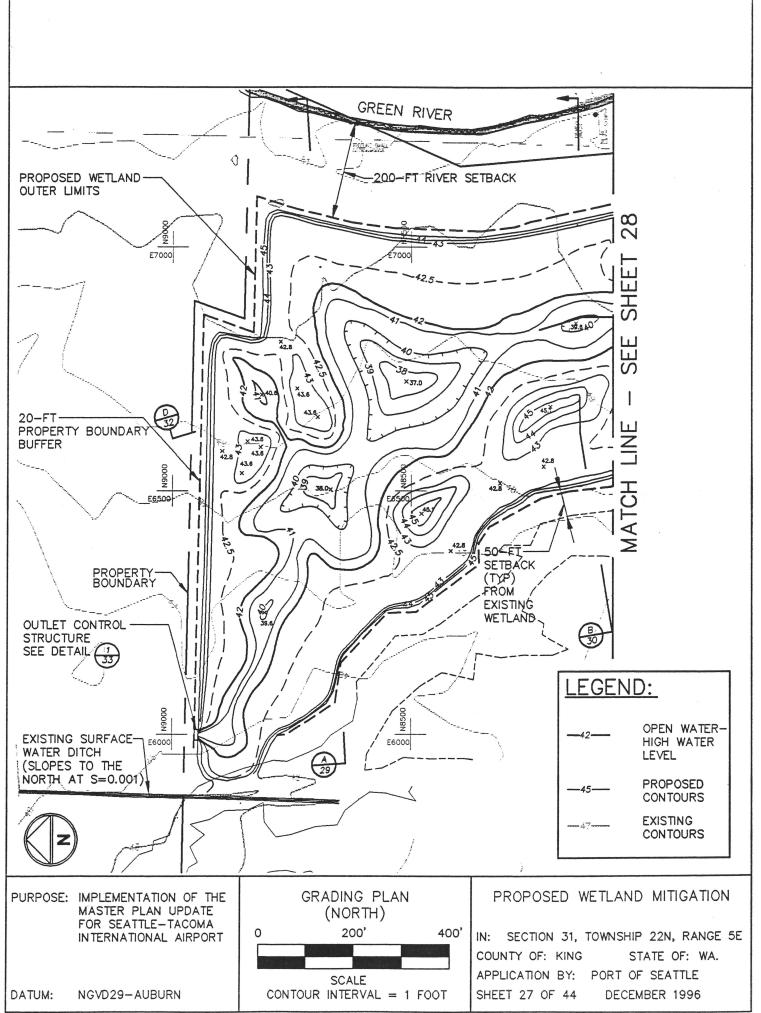
APPLICATION BY: PORT OF SEATTLE

SHEET 25 of 44 DECEMBER 1996

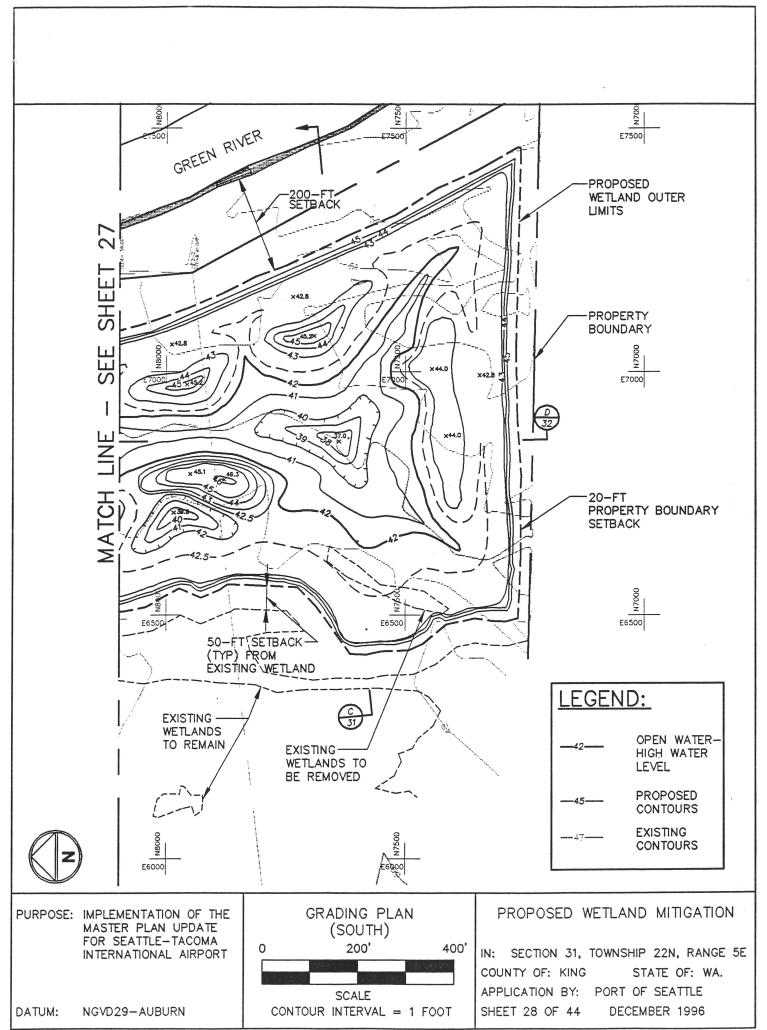
NOT TO SCALE



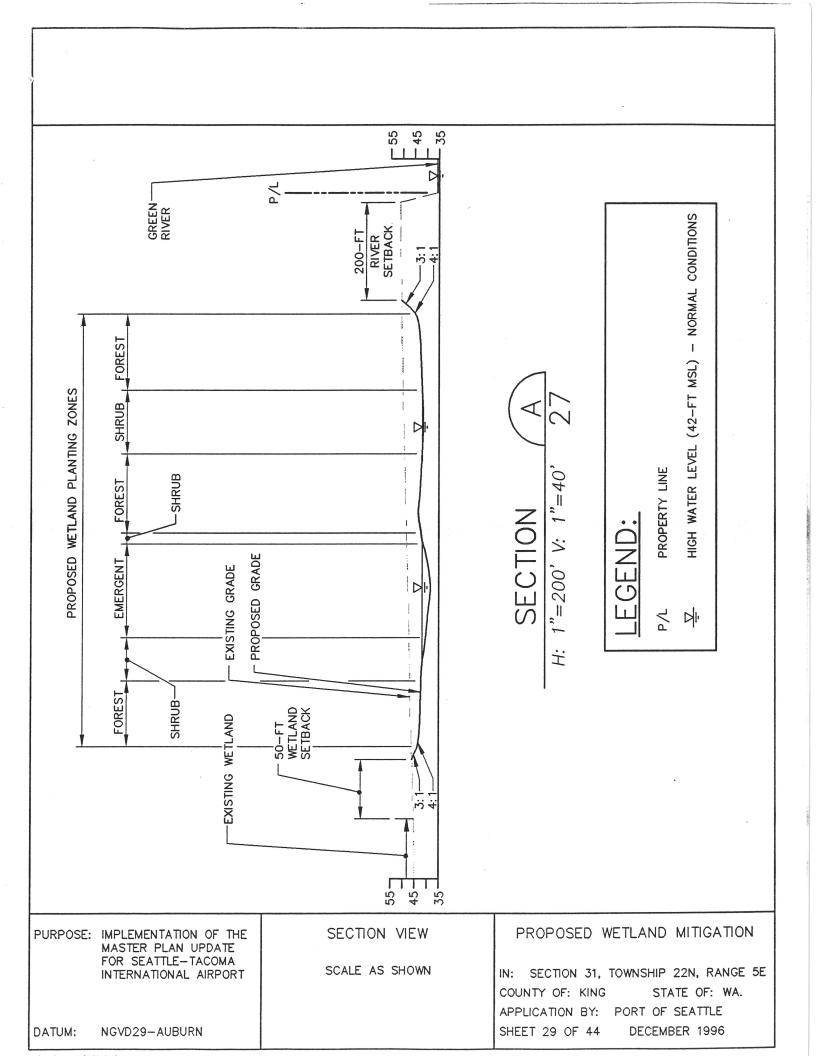
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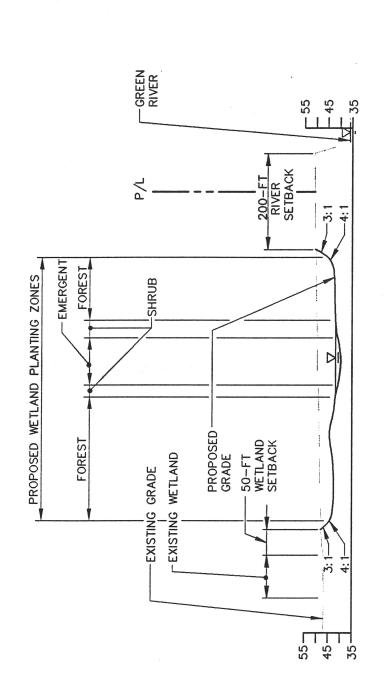


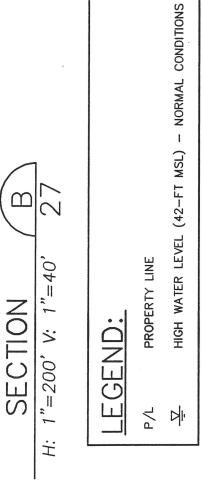
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PURPOSE: IMPLEMENTATION OF THE

NGVD29-AUBURN

MASTER PLAN UPDATE FOR SEATTLE-TACOMA INTERNATIONAL AIRPORT SECTION VIEW

SCALE AS SHOWN

PROPOSED WETLAND MITIGATION

IN: SECTION 31, TOWNSHIP 22N, RANGE 5E

COUNTY OF: KING

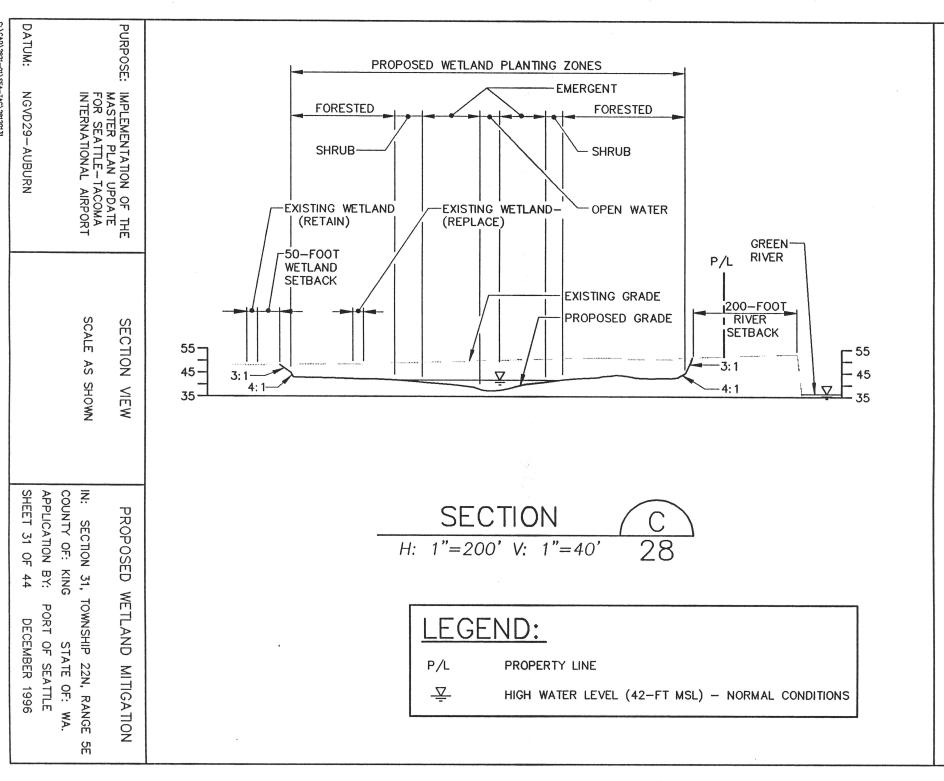
STATE OF: WA.

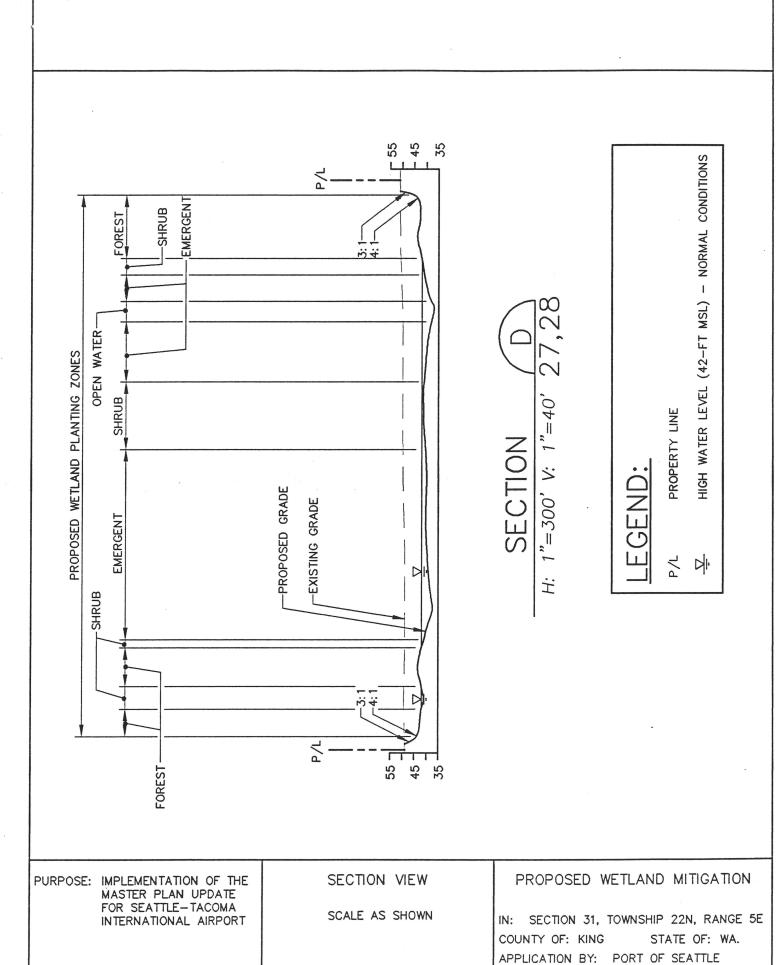
APPLICATION BY: SHEET 30 OF 44

PORT OF SEATTLE
DECEMBER 1996

C: \CAD\2921-01\SEA-TAC\29120130

DATUM:





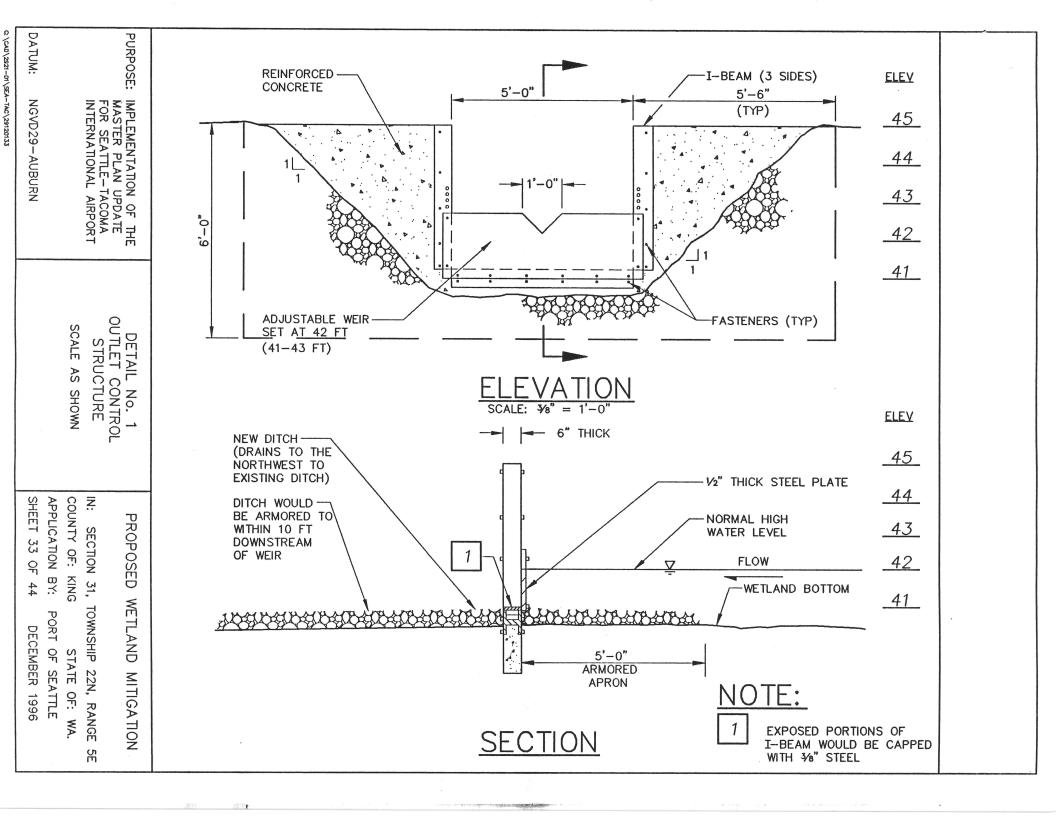
DECEMBER 1996

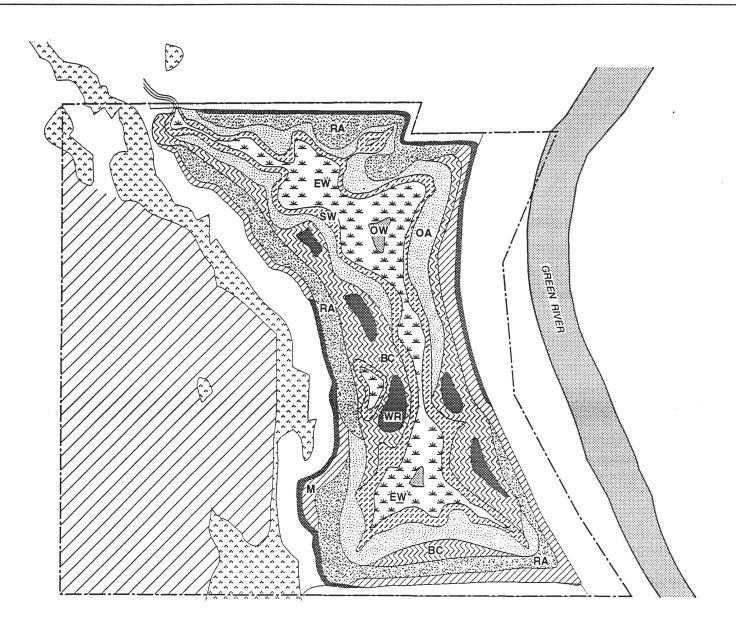
SHEET 32 OF 44

C: \CAD\2921-01\SEA-TAC\29120132

NGVD29-AUBURN

DATUM:





Black Cottonwood/Willow

Red Alder/Salmonberry

OA Oregon Ash/Slough Sedge

Mixed Forest

WR Western Red Cedar

[^\_^^] Existing Wetland

ŚW Shrub Wetland

OW

⊿EW Ł Emergent Wetland

Open Water/Non-vegetated

PURPOSE: IMPLEMENTATION OF THE MASTER PLAN UPDATE SEATTLE-TACOMA

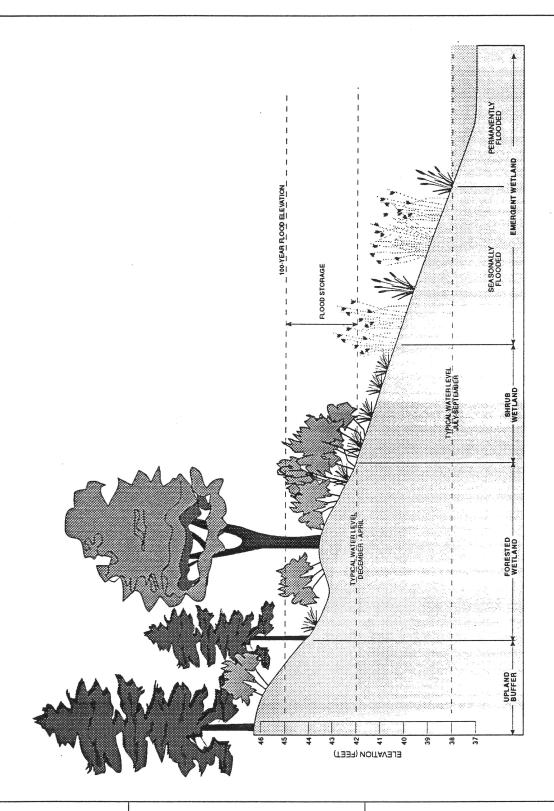
INTERNATIONAL AIRPORT

### PROPOSED WETLAND PLANT ASSOCIATIONS



### PROPOSED WETLAND MITIGATION

IN: SECTION 31, TOWNSHIP 22N, RANGE 5E COUNTY OF: KING STATE: WA APPLICATION BY: PORT OF SEATTLE SHEET 34 of 44 DECEMBER 1996



PURPOSE: IMPLEMENTATION OF THE
MASTER PLAN UPDATE
SEATTLE-TACOMA
INTERNATIONAL AIRPORT

RELATIONSHIP OF SEASONAL WATER LEVEL VARIATIONS TO PROPOSED WETLAND VEGETATION

NOT TO SCALE

### PROPOSED WETLAND MITIGATION

IN: SECTION 31, TOWNSHIP 22N, RANGE 5E COUNTY OF: KING STATE: WA APPLICATION BY: PORT OF SEATTLE SHEET 35 of 44 DECEMBER 1996

### **Black Cottonwood/Willow** "BÇ" BC BC SkW PW 0 BC BC · HW SkW 0 8° oPW o o° SkW &BC& WC ₽BÇ

Red Alder/Salmonberry

PURPOSE: IMPLEMENTATION OF THE

MASTER PLAN UPDATE
SEATTLE-TACOMA
INTERNATIONAL AIRPORT

TYPICAL PLANTING PLAN BLACK COTTONWOOD/ WILLOW AND RED ALDER/ SALMONBERRY ZONES

IN: SECTION 31, TOWNSHIP 22N, RANGE 5E COUNTY OF: KING STATE: WA

PROPOSED WETLAND MITIGATION

APPLICATION BY: PORT OF SEATTLE SHEET 36 of 44 DECEMBER 1996

NOT TO SCALE

				•
Black Cottonwood/Will Scientific Name	<b>ow Zone</b> Common Name	Symbol	Condition	Comments
-				
Trees Fraxinus latifolia	Oregon ash	(OA)	container	Trees would be planted at densities of
Populus trichocarpa Salix lasiandra	black cottonwood Pacific willow	BC PW	container/bareroo bareroot/livestake	
Shrubs Lonicera involucrata	twinberry	( T <sup>p</sup>	container	Approximately 35 to 50% of this association would be planted with shrub
Salix hookeriana Salix sitchensis	Hooker's willow Sitka willow	SkW	bareroot/livestake bareroot/livestake	
Herbs Carex obnupta	slough sedge	(\$\$)	plug/seed	10 to 15% of the association would be planted with slough sedge. The remainin area would be seeded with a grass groundcover.
Downed Log				•
Red Alder/Salmonberry Scientific Name	Zone Common Name	Symbol	Condition	Comments
Trees				
Alnus rubra	red alder	A	container	Trees would be planted at densities of at least 120 plants per acre.
Pyrus fusca	western crabappl	e wc	container	at loads (20 plants per asie)
Shrubs Cornus stolonifera	red-osier dogwoo	d ORO	bareroot/livestake	with shrubs at an approximate spacing of
Lonicera involucrata Rubus spectabilis	twinberry salmonberry	T	container container/bareroo	5 ft on center.
Herbs Carex obnupta	slough sedge	(\$\$)	plug/seed	Slough sedge would be planted in 10 to 20% of the association. The remaining area would be seeded with a grass
Downed Log			3	groundcover.
URPOSE: IMPLEMENTATION MASTER PLAN UP SEATTLE-TACOMA INTERNATIONAL A	DATE B	PICAL PLAN LACK COTT LLOW AND F ALMONBER	ONWOOD/ RED ALDER/	PROPOSED WETLAND MITIGATION  IN: SECTION 31, TOWNSHIP 22N, RANGE 5E COUNTY OF: KING STATE: WA APPLICATION BY: PORT OF SEATTLE

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PURPOSE: IMPLEMENTATION OF THE

MASTER PLAN UPDATE SEATTLE-TACOMA INTERNATIONAL AIRPORT TYPICAL PLANTING PLAN OREGON ASH/SLOUGH SEDGE AND MIXED FOREST ZONES

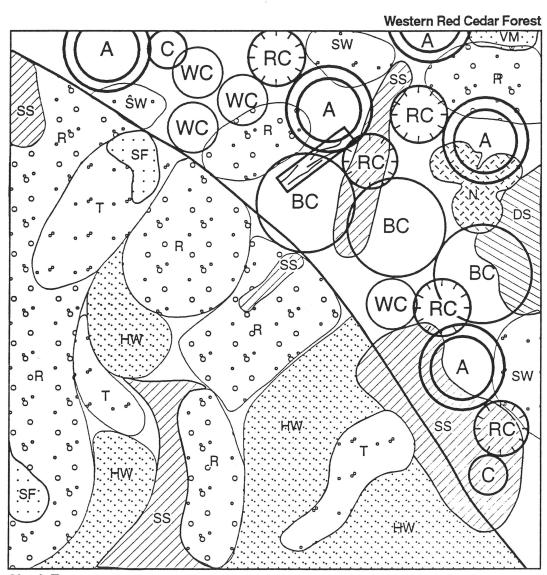
NOT TO SCALE

### PROPOSED WETLAND MITIGATION

IN: SECTION 31, TOWNSHIP 22N, RANGE 5E COUNTY OF: KING STATE: WA APPLICATION BY: PORT OF SEATTLE SHEET 38 of 44 DECEMBER 1996

Scientific Name	dge Zone Common Name	Symbol	Condition	Comments
Trees Fraxinus latifolia	Oregon ash	OA)	container	At least 150 trees per acre would
Salix lasiandra	Pacific willow	PW	bareroot	planted in this association.
Populas trichocarpa	Black Cottonwood	(BC)	container/livesta	ake
Shrubs Rubus spectabilis	salmonberry		container/barero	oot 10 to 20% of the area would be plar with salmonberry at spacings of a least 5 ft on center.
Herbs Carex obnupta	slough sedge	(\$\$)	plug/seed	40 to 50% of this association wou be planted and/or seeded with slo sedge. The remaining area would
Carex rostrata	beaked sedge	BS	plug	seeded with a grass groundcover
Downed Log			,	
Mixed Forest Zone Scientific Name	Common Name	Symbol	Condition	Comments
Trees Alnus rubra	red alder	A	container	At least 120 trees per acre would be planted in this association.
Picea sitchensis Populus trichocarpa Pyrus fusca Thuja plicata	Sitka spruce black cottonwood western crabapple western red cedar	SkS BC WC RC	container container/barer container container	
Shrubs <i>Acer circinatum</i>	vine maple	·VM.	container	40 to 50% of the area would be pla with shrubs at spacings of
Cornus stolonifera Salix sitchensis	red-osier dogwood Sitka willow	©R o	bareroot/livesta bareroot/livesta	
Herbs <i>Carex obnupta</i>	slough sedge	(\$\$)	plug/seed	2 to 10% of the area would be pla with slough sedge. The remaining would be seeded with a grass
Downed Log			1	groundcover.
POSE: IMPLEMENTATION OF MASTER PLAN UPDA' SEATTLE-TACOMA INTERNATIONAL AIRF	TE OREC	AL PLANT GON ASH/ DGE AND OREST ZO	MIXED	PROPOSED WETLAND MITIGATION  IN: SECTION 31, TOWNSHIP 22N, RANGE COUNTY OF: KING STATE: WA

APPLICATION BY: PORT OF SEATTLE
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Shrub Zone

PURPOSE: IMPLEMENTATION OF THE MASTER PLAN UPDATE SEATTLE-TACOMA

INTERNATIONAL AIRPORT

TYPICAL PLANTING PLAN WESTERN RED CEDAR FOREST AND SHRUB ZONES

PROPOSED WETLAND MITIGATION

IN: SECTION 31, TOWNSHIP 22N, RANGE 5E COUNTY OF: KING

STATE: WA

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DECEMBER 1996

NOT TO SCALE

Western Red Cedar Fore	st Zone			
Scientific Name	Common Name	Symbol	Condition	Comments
Trees				
Alnus rubra	red alder		container	At least 150 trees per acre would be planted in this association.
Populus trichocarpa Pyrus fusca Rhamnus purshiana Thuja plicata	black cottonwood western crabapple cascara western red cedar	BC W C R	container/barero container container container	
Shrubs Acer circinatum	vine maple	· WM·	container	20 to 30% of the area would be planted with shrubs. Spacing would
Cornus stolonifera Physocarpos capitatus Salix scouleriana	red-osier dogwood Pacific ninebark Scouler's willow	° R o	bareroot/livestak container bareroot/livestak	
Herbs <i>Carex deweyana</i>	Dewey's sedge	DS	plug	15 to 25% of the area would be planted with sedges. The remaining area would be seeded with a grass
Carex obnupta	slough sedge	(\$S)	plug/seed	groundcover.
Shrub Zone				
Scientific Name	Common Name	Symbol	Condition	Comments
Shrubs Cornus stolonifera	red-osier dogwood	°R <sub>o</sub>	bareroot/livestake	approximately 85 to 90% of the shrub zone at spacings ranging from 5 to 8
Lonicera involucrata Salix hookeriana	twinberry Hooker's willow	T HW.	container bareroot/livestake	ft on center.
Herbs Carex obnupta	slough sedge	(\$S)	plug/seed	5 to 10% of the shrub zone would be planted and/or seeded with emergent species. The remaining area would be
Scirpus microcorpus	small-fruited bulrush	·SF·	seed	seeded with a grass groundcover.
PURPOSE: IMPLEMENTATION O MASTER PLAN UPDA SEATTLE-TACOMA INTERNATIONAL AIR	WESTER		TING PLAN EDAR FOREST ZONES	PROPOSED WETLAND MITIGATION  IN: SECTION 31, TOWNSHIP 22N, RANGE 5E

COUNTY OF: KING STATE: WA
APPLICATION BY: PORT OF SEATTLE
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### **Emergent Zone** <del>ишшпп</del>НВи) OPEN WATER SR<sub>o</sub>. SB NR IP DF \_\_\_\_\_ 0 \_\_\_\_\_ NR IΡ 0 o°SR o° WS **ONR** SB 0 BC IP IP BC ŚŚ IP DF o NR og

PURPOSE: IMPLEMENTATION OF THE MASTER PLAN UPDATE

MASTER PLAN UPDATE SEATTLE-TACOMA INTERNATIONAL AIRPORT

**Upland Buffer** 

TYPICAL PLANTING PLAN EMERGENT AND UPLAND BUFFER ZONES PROPOSED WETLAND MITIGATION

IN: SECTION 31, TOWNSHIP 22N, RANGE 5E COUNTY OF: KING STATE: WA APPLICATION BY: PORT OF SEATTLE

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Scientific Name	Common Name	Symbo	I Condition	Comments
Herbs		٠		
Carex obnupta	slough sedge	(\$\$)	plug	50 to 75% of the emergent zone would be planted with the listed plant species The remaining area would be seeded (with grasses, sedges, and rushes) or le unseeded and subjected to natural
Carex rostrata	beaked sedge	BS	D plug	colonization.
Eleocharis palustris	common spike-ru	sh SR	plug	
Oenanthe sarmentos	,	₩PX		
Polygonum amphibia. Scirpus acutis	<ul> <li>water smartweed hardstem bulrush</li> </ul>	₩\$ (#JHB]	container plug	
Scirpus microcarpus	small-fruited bulru		seed	
Sparganium emersun		ed NB	plug	
	Hydroseed mix/			
	Natural colonizati	on <u> </u>		
Upland Buffer Zone				
Scientific Name	Common Name	Symbol	Condition	Comments
Trees				
Acer macrophyllum	big-leaf maple	(BM)	container	At least 120 trees per acre would be planted in the upland buffer.
Populus trichocarpa	black cottonwood	(BC)	container/ba	reroot
Pseudotsuga menzies	i Douglas-fir	(BC) (DF)	container	
Tsuga heterophylla	western hemlock		container	
Shrubs				
Acer circinatum	vine maple	(· VM · )	container	30 to 40% of the area would be
	ŗ	·····		planted with shrubs at spacings
				ranging from 5 to 6 ft on center.
Corylus cornuta	hazelnut	$\bigoplus$	container	
Oemeleria cerasiformis		IP	container	
Rosa nutkana Symphoricarpos albus	nootka rose snowberry	(NR)	container container	
Symphonicalpos albus	Showberry	(\(\sumset \sumset \text{SB}\(\sumset\)	Container	
DOOF. IMPLEMENTATION OF	THE TYPICA	i DI ANITINI	C DL AN	PROPOSED WETLAND MITIGATION
POSE: IMPLEMENTATION OF MASTER PLAN UPDAT		L PLANTIN ENT AND U		FAOFOSED WEILAND MITIGATION
SEATTLE-TACOMA INTERNATIONAL AIRP	DI	FFER ZON		IN: SECTION 31, TOWNSHIP 22N, RANGE 5
				COUNTY OF: KING STATE: WA

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PURPOSE: IMPLEMENTATION OF THE

MASTER PLAN UPDATE FOR SEATTLE-TACOMA INTERNATIONAL AIRPORT

DATUM: NGVD29-AUBURN

PROPOSED WETLAND MITIGATION

IN: SECTION 31, TOWNSHIP 22N, RANGE 5E COUNTY OF: KING STATE OF: WA.

APPLICATION BY: PORT OF SEATTLE

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