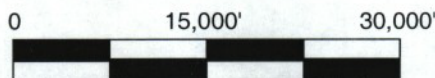


Note: Latitude and longitude are approximate

Port of Seattle/556-2912-001/01(03) 7/02

PURPOSE: MEET PUBLIC NEED FOR EFFICIENT REGIONAL AIR TRANSPORTATION FACILITY TO MEET EXISTING AND FUTURE DEMAND

VICINITY MAP



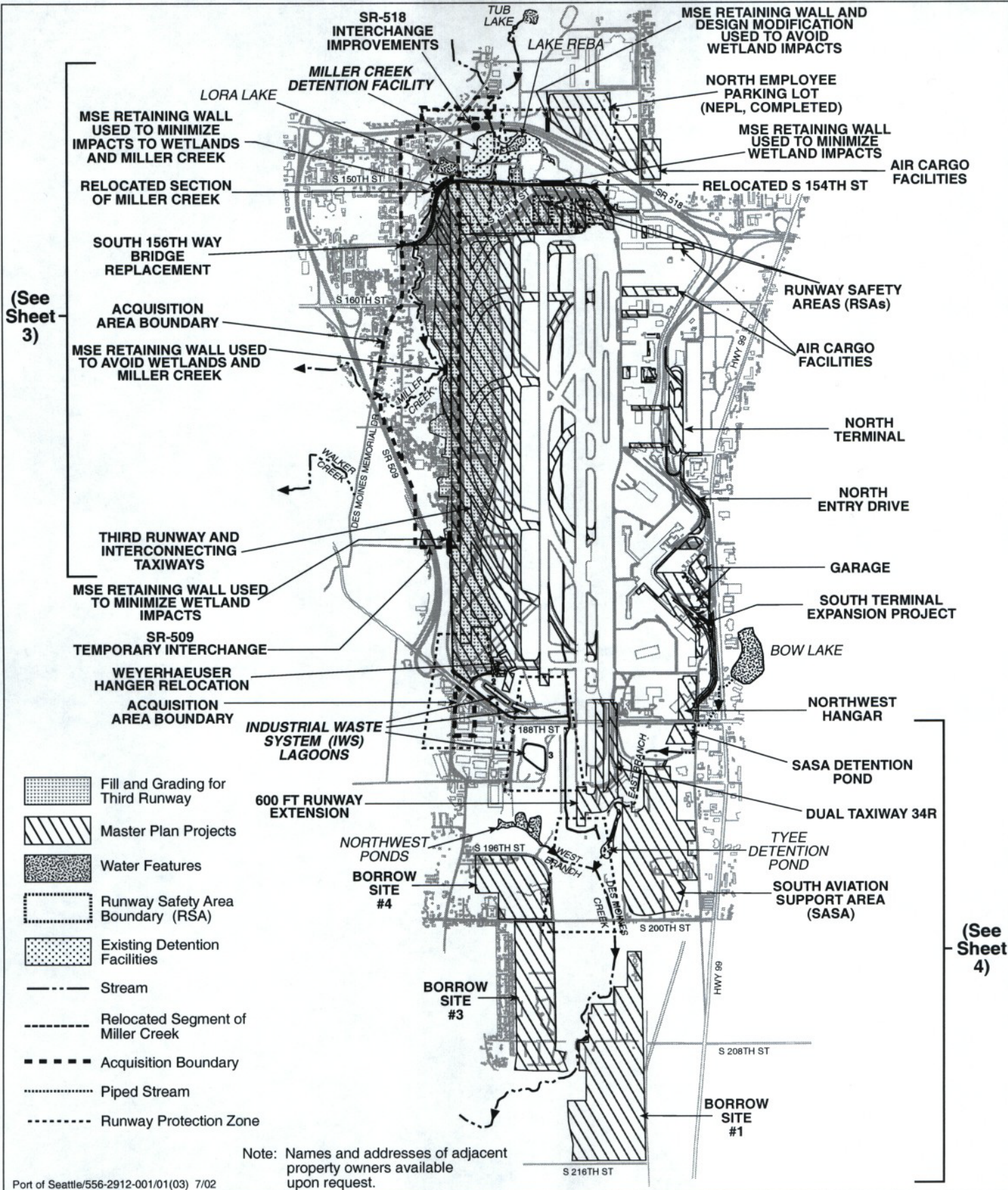
SCALE 1" = 1,500'

IMPACT/MITIGATION SITES FOR PROPOSED MASTER PLAN UPDATE IMPROVEMENTS AT SEATTLE TACOMA INTERNATIONAL AIRPORT

IN: SECTIONS 20, 21, 28, 29, 32, AND 33, TOWNSHIP 23N, RANGE 4E; SECTIONS 4, 5, AND 9 TOWNSHIP 22N, RANGE 4E; AND SECTION 31 TOWNSHIP 22N, RANGE 5E  
 COUNTY OF: KING STATE: WA  
 APPLICATION BY: PORT OF SEATTLE  
 SHEET 1 of 18 AUGUST 2002

96-4-02325





(See Sheet 3)

(See Sheet 4)

Port of Seattle/556-2912-001/01(03) 7/02

PURPOSE: MEET PUBLIC NEED FOR EFFICIENT REGIONAL AIR TRANSPORTATION FACILITY TO MEET EXISTING AND FUTURE DEMAND

96-4-02325

PLAN VIEW



0 1,800' 3,600'



SCALE 1" = 2,700'

PROPOSED MASTER PLAN UPDATE IMPROVEMENT PROJECTS AT STIA

IN SECTIONS 20, 21, 28, 29, 32, AND 33, TOWNSHIP 23N, RANGE 4E; SECTIONS 4, 5, AND 9 TOWNSHIP 22N, RANGE 4E

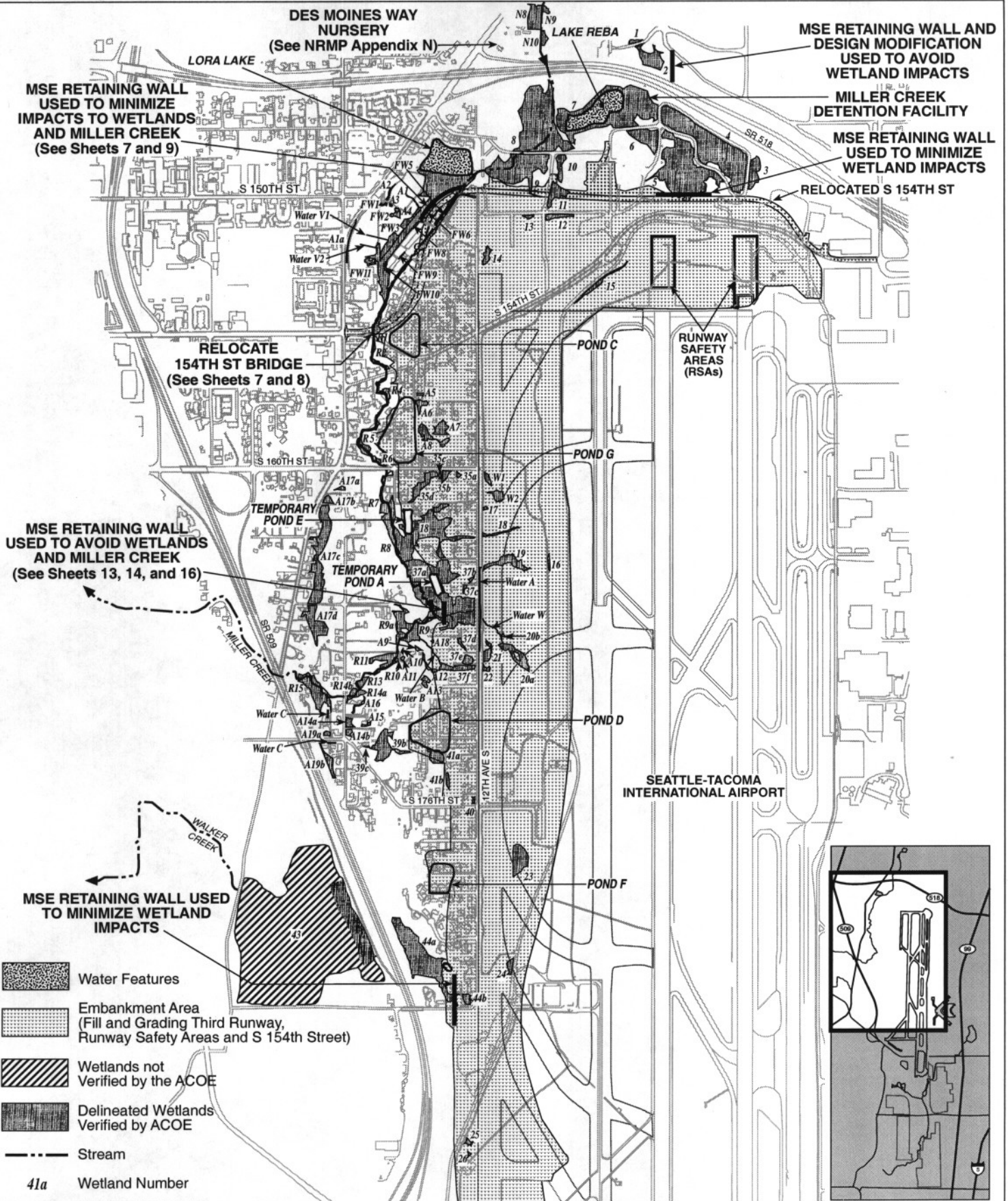
COUNTY OF: KING STATE: WA

APPLICATION BY: PORT OF SEATTLE

SHEET 2 of 18

AUGUST 2002

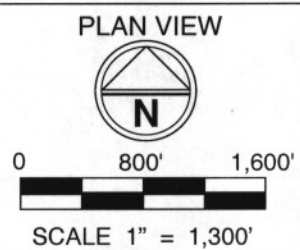




Port of Seattle/556-2912-001/01(03) 7/02

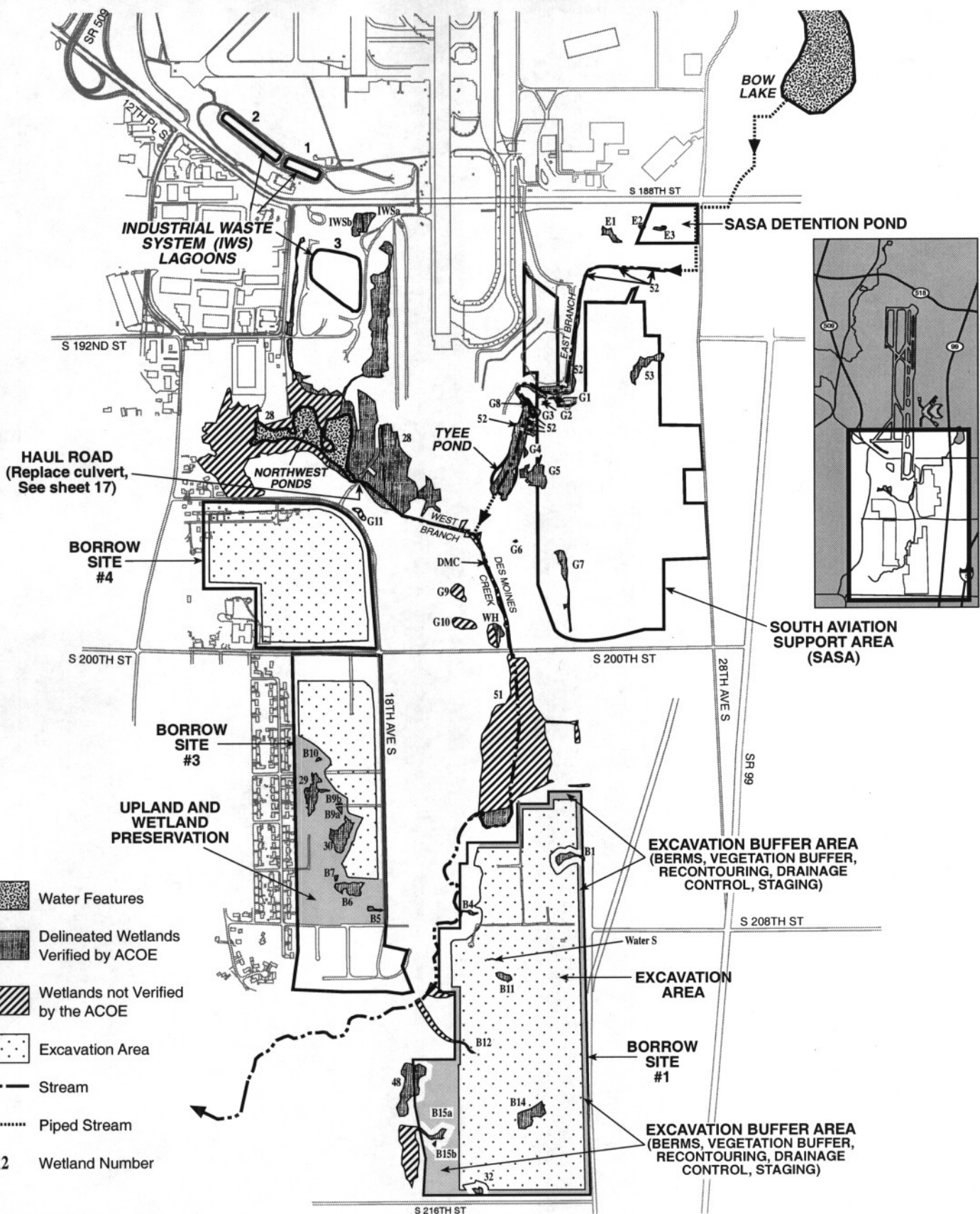
**PURPOSE:** MEET PUBLIC NEED FOR EFFICIENT REGIONAL AIR TRANSPORTATION FACILITY TO MEET EXISTING AND FUTURE DEMAND

96-4-02325



**WETLANDS IN THE MILLER CREEK BASIN IMPACTED BY MASTER PLAN UPDATE IMPROVEMENTS**

IN SECTIONS 20, 21, 28, 29, 32, 33  
 TOWNSHIP 23N, RANGE 4E  
 COUNTY OF: KING STATE: WA  
 APPLICATION BY: PORT OF SEATTLE  
 SHEET 3 of 18 AUGUST 2002

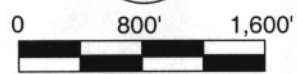


Port of Seattle/556-2912-001/01(03) 7/02

PURPOSE: MEET PUBLIC NEED FOR EFFICIENT REGIONAL AIR TRANSPORTATION FACILITY TO MEET EXISTING AND FUTURE DEMAND

96-4-02325

PLAN VIEW



SCALE 1" = 1,300'

WETLANDS IN THE DES MOINES CREEK BASIN IMPACTED BY MASTER PLAN UPDATE IMPROVEMENTS

IN SECTIONS 4, 5, AND 9 TOWNSHIP 22N, RANGE 4E  
 COUNTY OF: KING STATE: WA  
 APPLICATION BY: PORT OF SEATTLE  
 SHEET 4 of 18 AUGUST 2002



In the approximately 2,600-acre area that will be owned by the Port of Seattle after property acquisition is complete, there are approximately 117 delineated wetlands associated with Master Plan Update improvements totaling approximately 115 acres. Full implementation of the proposed Master Plan Update improvements will permanently impact approximately 18.37 acres of wetlands, including 8.17 acres of forested wetlands, 2.98 acres of scrub-shrub wetlands, and 7.22 acres of emergent wetlands. A complete description of wetlands in the impact area is included in the *Wetland Delineation Report* and *Natural Resource Mitigation Plan*.

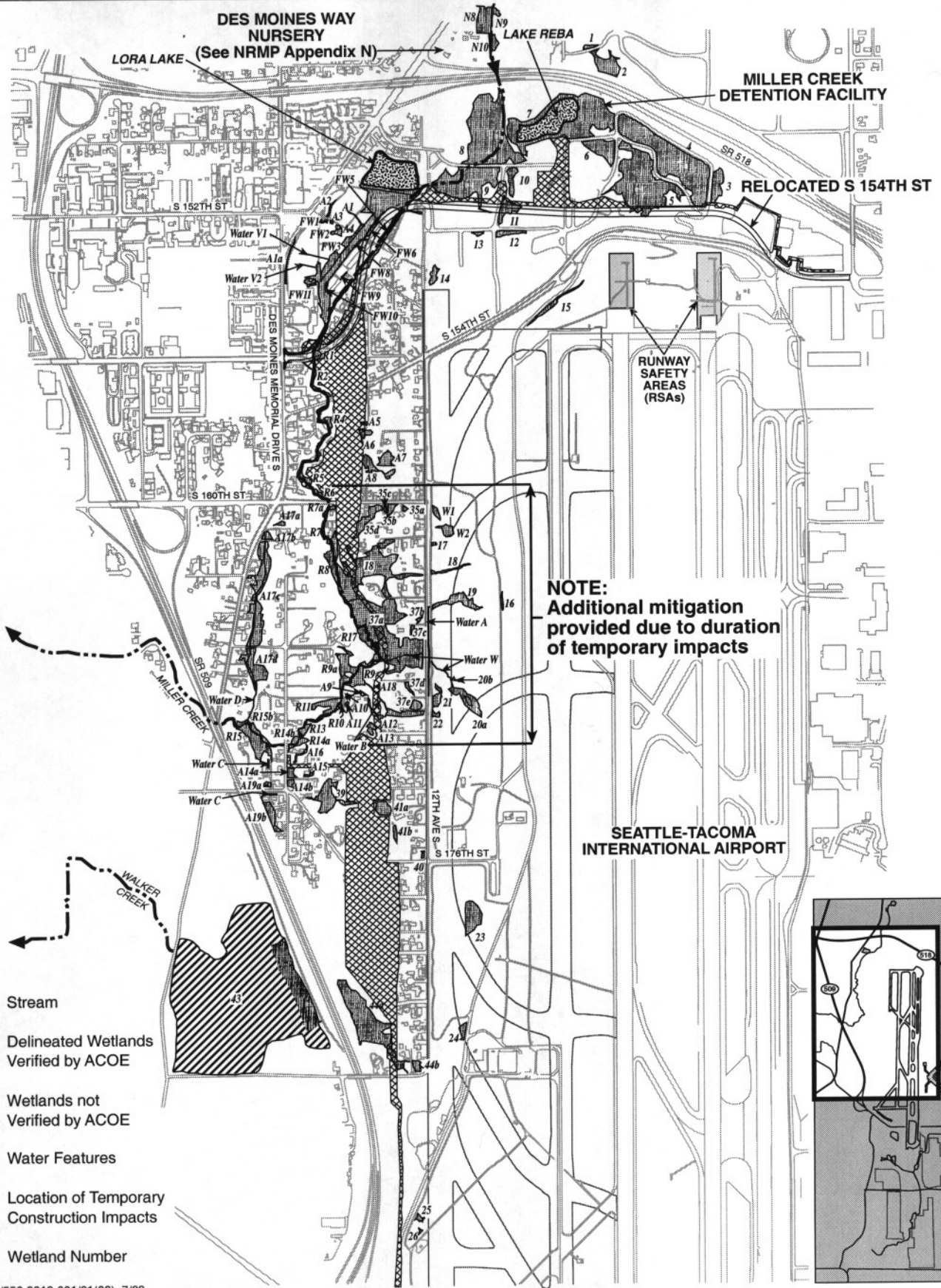
Master Plan Project Element	Impact (acres)		
	Indirect	Direct	Temporary
Runway Safety Area Extension	0.00	0.14	0.40
Third Runway Project	1.29	12.94	1.48*
South Aviation Support Area	1.07	1.71	0.17
Borrow Area and Haul Road	0.04	1.06	0.00
Mitigation	0.00	0.12	See Below
<b>Total</b>	<b>2.40</b>	<b>15.97</b>	<b>2.05</b>

\*Regardless of their ultimate restoration, the Corps considers temporary impacts to wetlands 18, 37, 44a, R2, A12 and A13 (totaling 1.25 acres) to be permanent.






Mitigation Details	Temporary Impact (acres)
<b>On-Site</b>	
Grading, Excavation, or Staging	4.71
Planting	16.38
Subtotal	21.09
<b>Off-Site</b>	
Grading, Excavation, or Staging	14.14
Planting	9.13
Subtotal	23.27
<b>Total</b>	<b>44.36</b>

PURPOSE: MEET PUBLIC NEED FOR EFFICIENT REGIONAL AIR TRANSPORTATION FACILITY TO MEET EXISTING AND FUTURE DEMAND  96-4-02325	PERMANENT IMPACTS TO WETLANDS	IN: SECTIONS 20, 21, 28, 29, 32, AND 33, TOWNSHIP 23N, RANGE 4E; SECTIONS 4, 5, AND 9, TOWNSHIP 22N, RANGE 4E; SECTION 31, TOWNSHIP 22N, RANGE 5E COUNTY OF: KING STATE: WA APPLICATION BY: PORT OF SEATTLE SHEET 5 OF 18      AUGUST 2002
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**NOTE:**  
Additional mitigation  
provided due to duration  
of temporary impacts

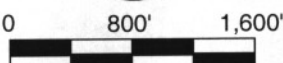
-  Stream
-  Delineated Wetlands Verified by ACOE
-  Wetlands not Verified by ACOE
-  Water Features
-  Location of Temporary Construction Impacts
- 41a Wetland Number

Port of Seattle/556-2912-001/01(03) 7/02

**PURPOSE:** MEET PUBLIC NEED FOR EFFICIENT REGIONAL AIR TRANSPORTATION FACILITY TO MEET EXISTING AND FUTURE DEMAND

96-4-02325

**PLAN VIEW**

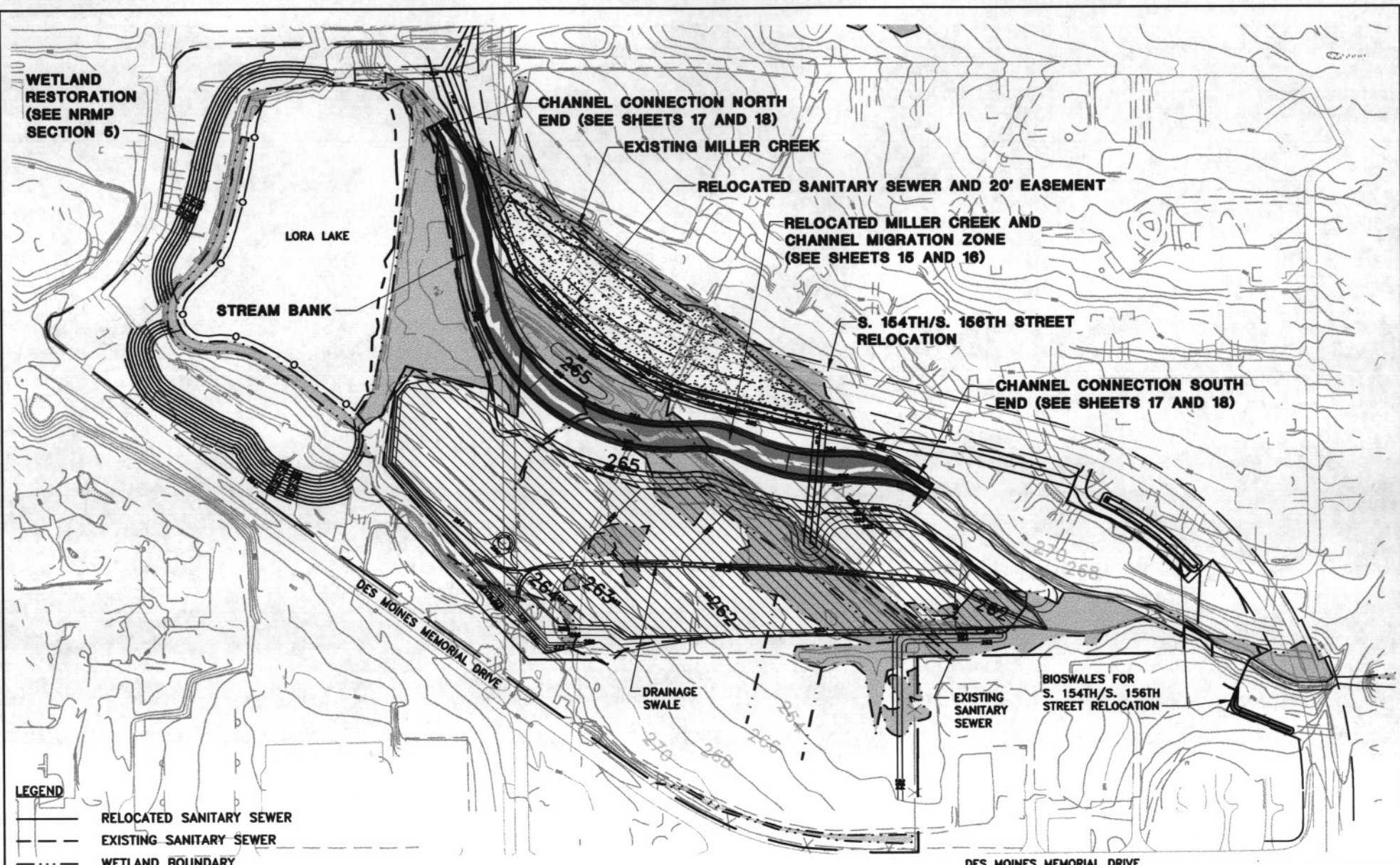


SCALE 1" = 1,300'

**TEMPORARY PROJECT CONSTRUCTION IMPACTS TO WETLANDS IN THE MILLER CREEK BASIN**

SECTIONS 20, 21, 28, 29, 32 AND 33,  
TOWNSHIP 23N, RANGE 4E  
COUNTY OF: KING STATE: WA  
APPLICATION BY: PORT OF SEATTLE  
SHEET 6 of 18 AUGUST 2002





**WETLAND RESTORATION (SEE NRMP SECTION 5)**

**CHANNEL CONNECTION NORTH END (SEE SHEETS 17 AND 18)**

**EXISTING MILLER CREEK**

**RELOCATED SANITARY SEWER AND 20' EASEMENT**

**RELOCATED MILLER CREEK AND CHANNEL MIGRATION ZONE (SEE SHEETS 15 AND 16)**

**S. 154TH/S. 156TH STREET RELOCATION**

**CHANNEL CONNECTION SOUTH END (SEE SHEETS 17 AND 18)**

LORA LAKE

STREAM BANK

DES MOINES MEMORIAL DRIVE










DRAINAGE SWALE

EXISTING SANITARY SEWER

BIOSWALES FOR S. 154TH/S. 156TH STREET RELOCATION

DES MOINES MEMORIAL DRIVE

**LEGEND**

-  RELOCATED SANITARY SEWER
-  EXISTING SANITARY SEWER
-  WETLAND BOUNDARY
-  EXISTING CONTOUR
-  PROPOSED CONTOUR
-  LIMIT OF CONSTRUCTION
-  FILLED FLOODPLAIN  
8,455 CY (5.24 AC.-FT.)
-  WETLAND
-  PROPOSED FLOODPLAIN EXCAVATION  
9,589 CY (5.94 AC.-FT.)

PURPOSE: MEET PUBLIC NEED FOR EFFICIENT REGIONAL AIR TRANSPORTATION FACILITY TO MEET EXISTING AND FUTURE DEMAND

DATUM: SEATAC GRID

96-4-02325

**PLAN VIEW**



0 225'  
CONTOUR INTERVAL = 2 FEET  
SCALE 1" = 225'

**GRADING PLAN FOR THE MILLER CREEK RELOCATION AND FLOODPLAIN ENHANCEMENT AT VACCA FARM**



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

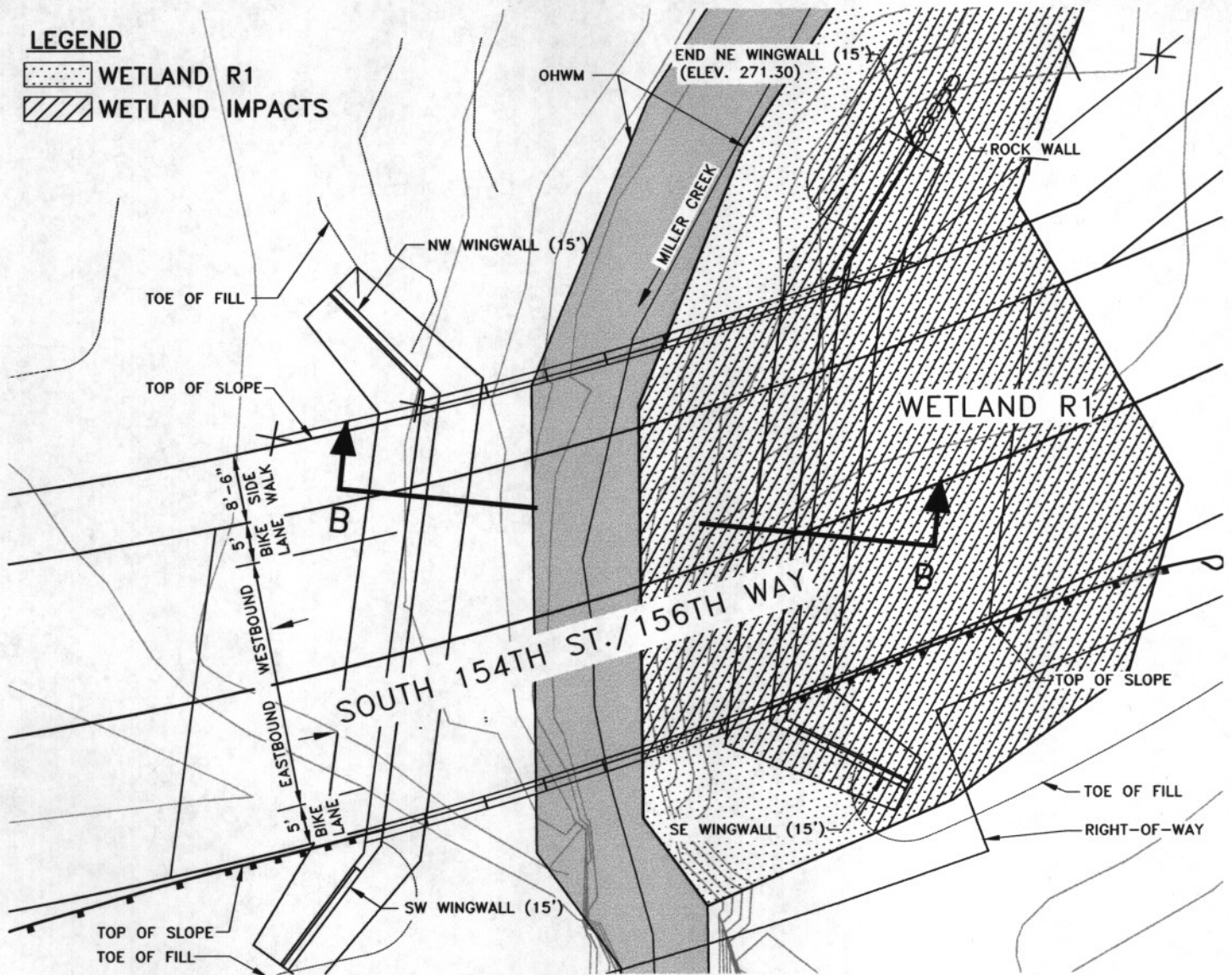
SHEET 7 OF 18

AUGUST 2002



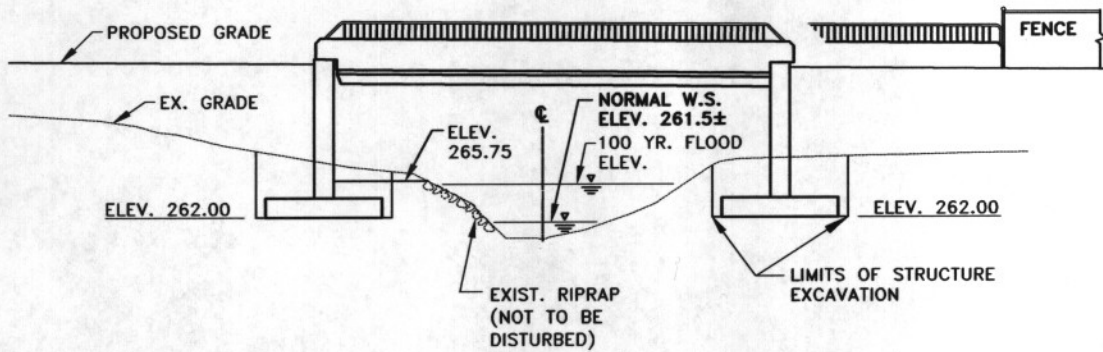
**LEGEND**

-  WETLAND R1
-  WETLAND IMPACTS



**PLAN**

SCALE 1"=20'



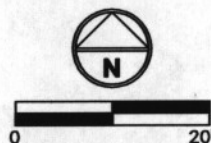
**SECTION - B**

SCALE 1"=20'

**NOTE:**  
ALL DISTURBED AREAS WILL BE STABILIZED USING APPROPRIATE BMPs.

**PURPOSE:** MEET PUBLIC NEED FOR EFFICIENT REGIONAL AIR TRANSPORTATION FACILITY TO MEET ANTICIPATED FUTURE DEMAND

**PLAN VIEW**



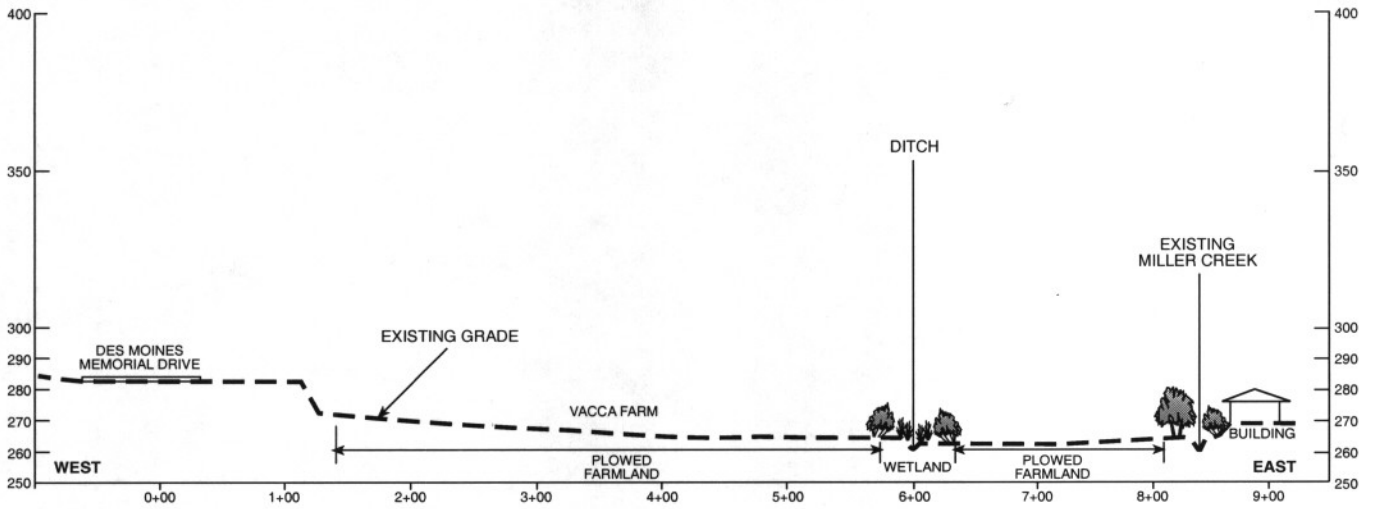
SCALE: 1"=20'

**SOUTH 156th WAY BRIDGE RELOCATION**

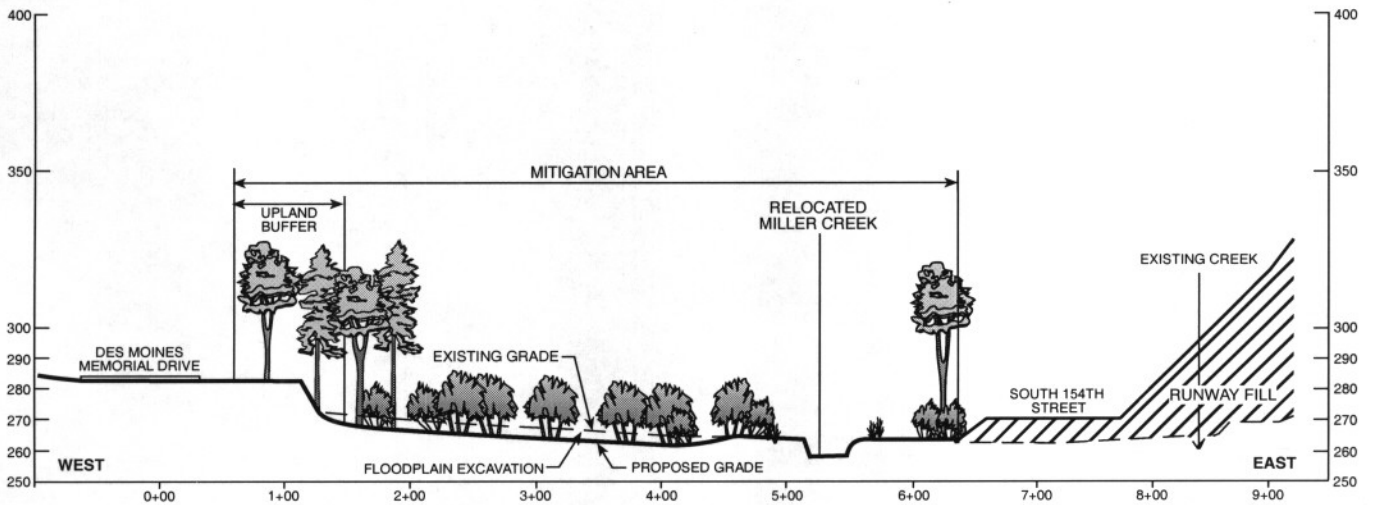
IN: SECTION 20, TOWNSHIP 23N, RANGE 4E  
 COUNTY OF: KING STATE OF: WA  
 APPLICATION BY: PORT OF SEATTLE  
 SHEET 8 OF 18 AUGUST 2002

96-4-02325

**Existing Conditions**



**Post-Mitigation**



Port of Seattle/556-2912-001/01(03) 7/02

**PURPOSE:** MEET PUBLIC NEED FOR EFFICIENT REGIONAL AIR TRANSPORTATION FACILITY TO MEET EXISTING AND FUTURE DEMAND

**DATUM:** VERTICAL: KING COUNTY  
HORIZONTAL: SEA-TAC GRID

96-4-02325

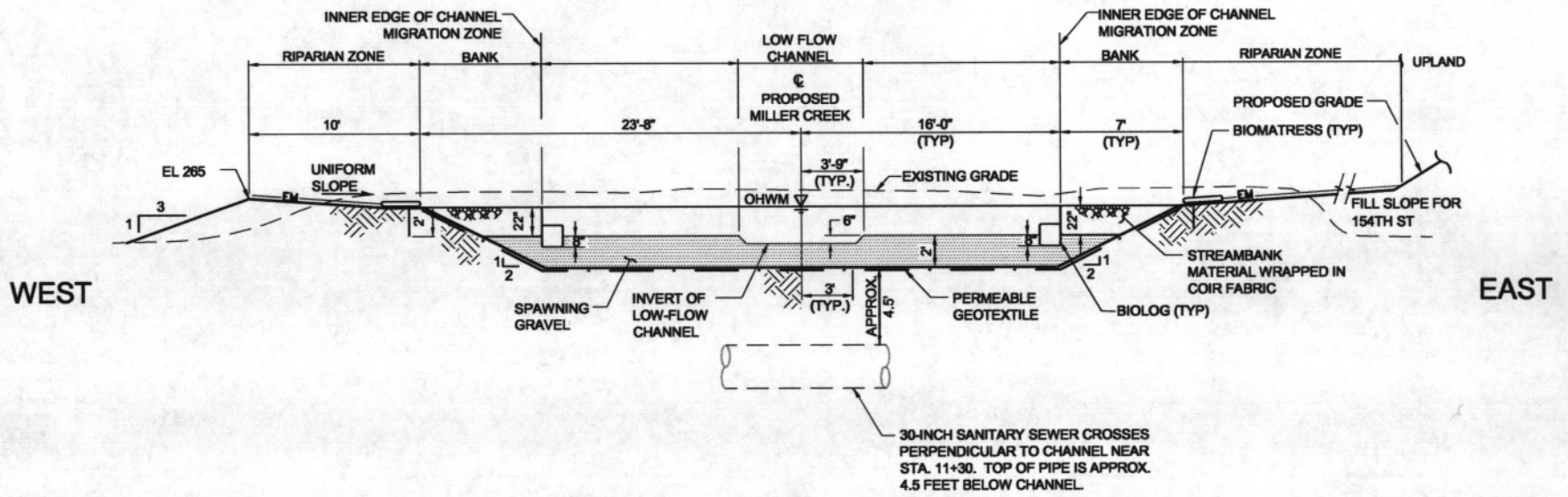
**SECTION VIEW**

VERTICAL SCALE 1" = 60'  
HORIZONTAL SCALE 1" = 150'

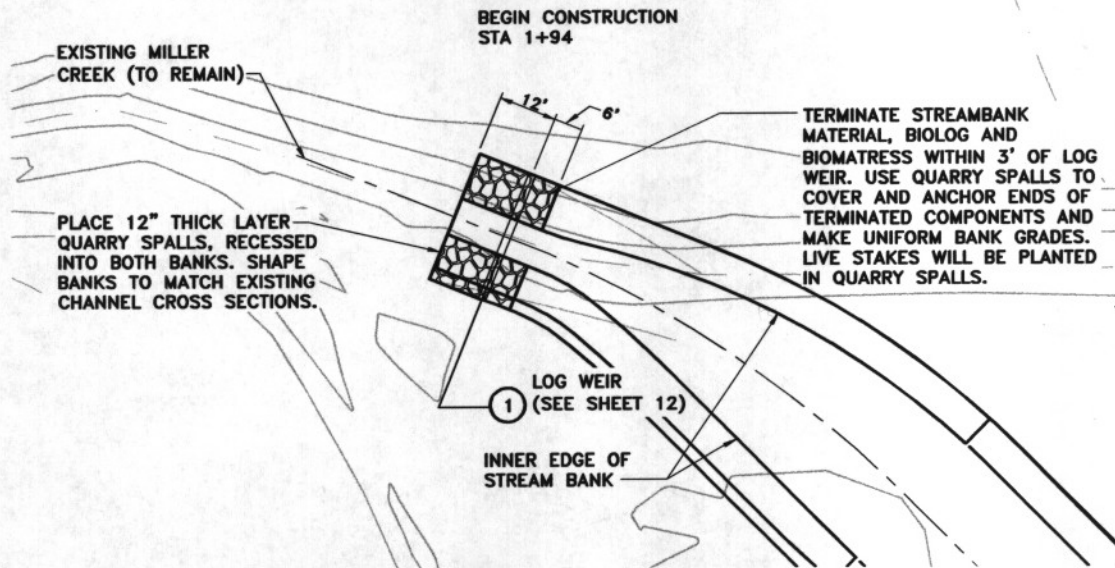
**TYPICAL CROSS SECTION PROPOSED GRADING FOR MILLER CREEK RELOCATION AND FLOODPLAIN ENHANCEMENT AT VACCA FARM**

IN: SECTION 20, TOWNSHIP 23N, RANGE 4E  
COUNTY OF: KING STATE: WA  
APPLICATION BY: PORT OF SEATTLE  
SHEET 9 of 18 AUGUST 2002

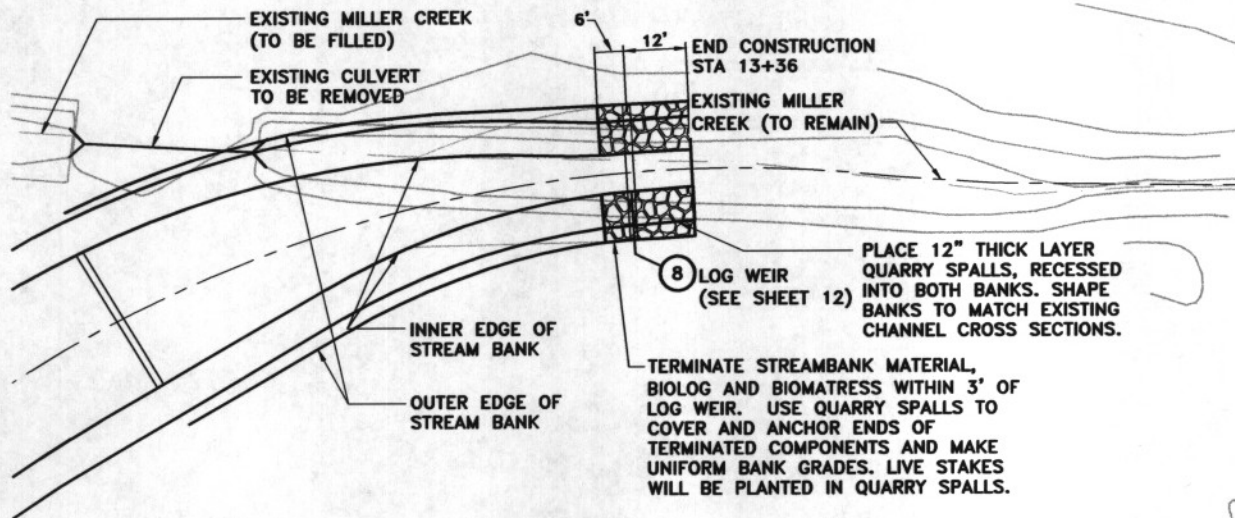




<p>PURPOSE: MEET PUBLIC NEED FOR EFFICIENT REGIONAL AIR TRANSPORTATION FACILITY TO MEET EXISTING AND FUTURE DEMAND</p> <p>96-4-02325</p>	<p>TYPICAL CROSS SECTION</p> <p>SCALE 1" = 10'</p>	<p>TYPICAL CHANNEL CROSS SECTION, MILLER CREEK RELOCATION</p> <p>IN: SECTION 20, TOWNSHIP 23N, RANGE 4E          COUNTY OF: KING STATE OF: WA          APPLICATION BY: PORT OF SEATTLE          SHEET 10 OF 18 AUGUST 2002</p>
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**DETAIL**  
 CHANNEL CONNECTION  
 NORTH END  
 SCALE: 1"=40'



**DETAIL**  
 CHANNEL CONNECTION  
 SOUTH END  
 SCALE: 1"=40'

PURPOSE: MEET PUBLIC NEED FOR  
 EFFICIENT REGIONAL AIR  
 TRANSPORTATION FACILITY  
 TO MEET EXISTING AND  
 FUTURE DEMAND

DATUM: SEATAC GRID  
 96-4-02325

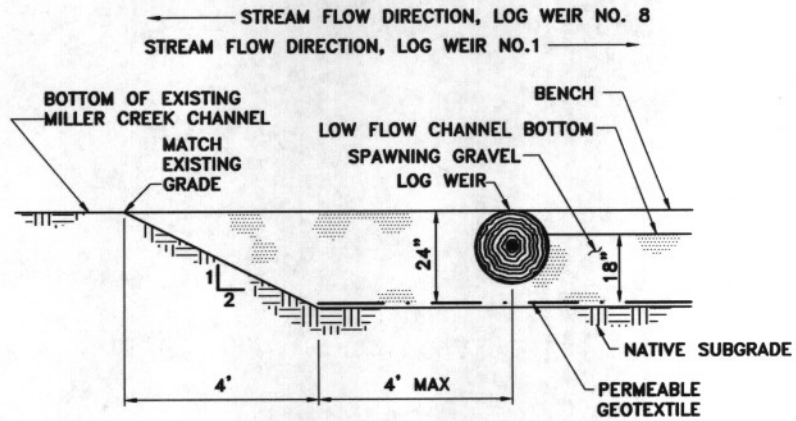
PLAN VIEW

SCALE: AS SHOWN

RELOCATED MILLER CREEK CHANNEL  
 CONNECTIONS TO EXISTING CREEK

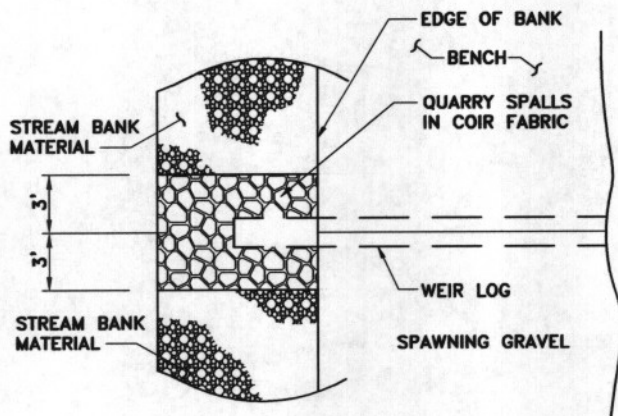
IN: SECTION 20, TOWNSHIP 23N, RANGE 4E  
 COUNTY OF: KING STATE OF: WA  
 APPLICATION BY: PORT OF SEATTLE  
 SHEET 11 OF 18 AUGUST 2002





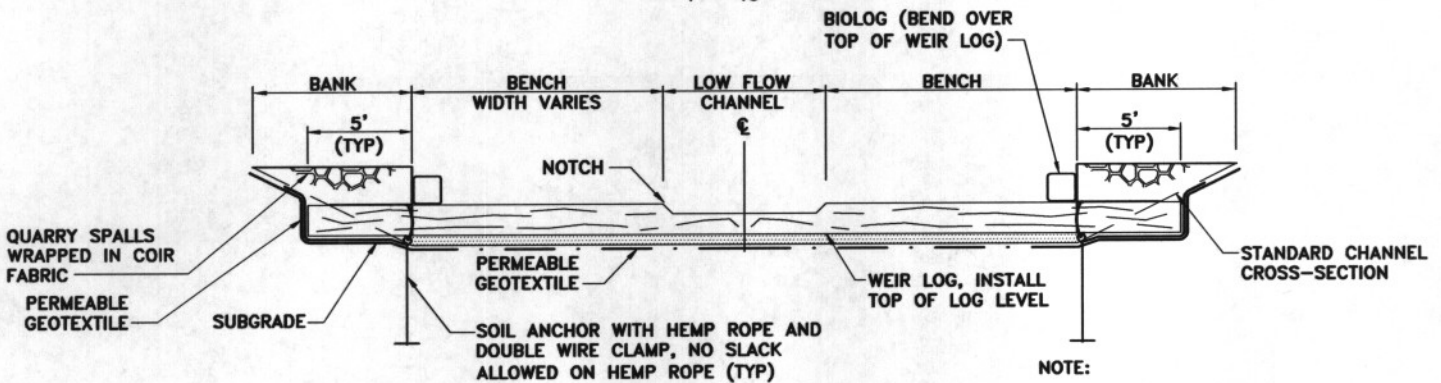
**CHANNEL END SECTION**  
**SECTION**

(SEE SHEET 11)  
1" = 4'



**DETAIL**

(SEE SHEET 11)  
1" = 10'



**TYPICAL LOG WEIR**  
**SECTION**

(SEE SHEET 11)  
1" = 10'

NOTE:

COIR FABRIC USED AT LOG WEIRS No. 2-7 ONLY.

WEIR NOTCH DEPTH CAN VARY FROM 4" TO 8" AS NEEDED TO PROVIDE LEVEL SURFACE ACROSS NOTCH WIDTH.

PURPOSE: MEET PUBLIC NEED FOR EFFICIENT REGIONAL AIR TRANSPORTATION FACILITY TO MEET EXISTING AND FUTURE DEMAND

CROSS SECTIONS AND DETAIL

DETAIL, RELOCATED MILLER CREEK LOG WEIRS

IN: SECTION 20, TOWNSHIP 23N, RANGE 4E

COUNTY OF: KING STATE OF: WA

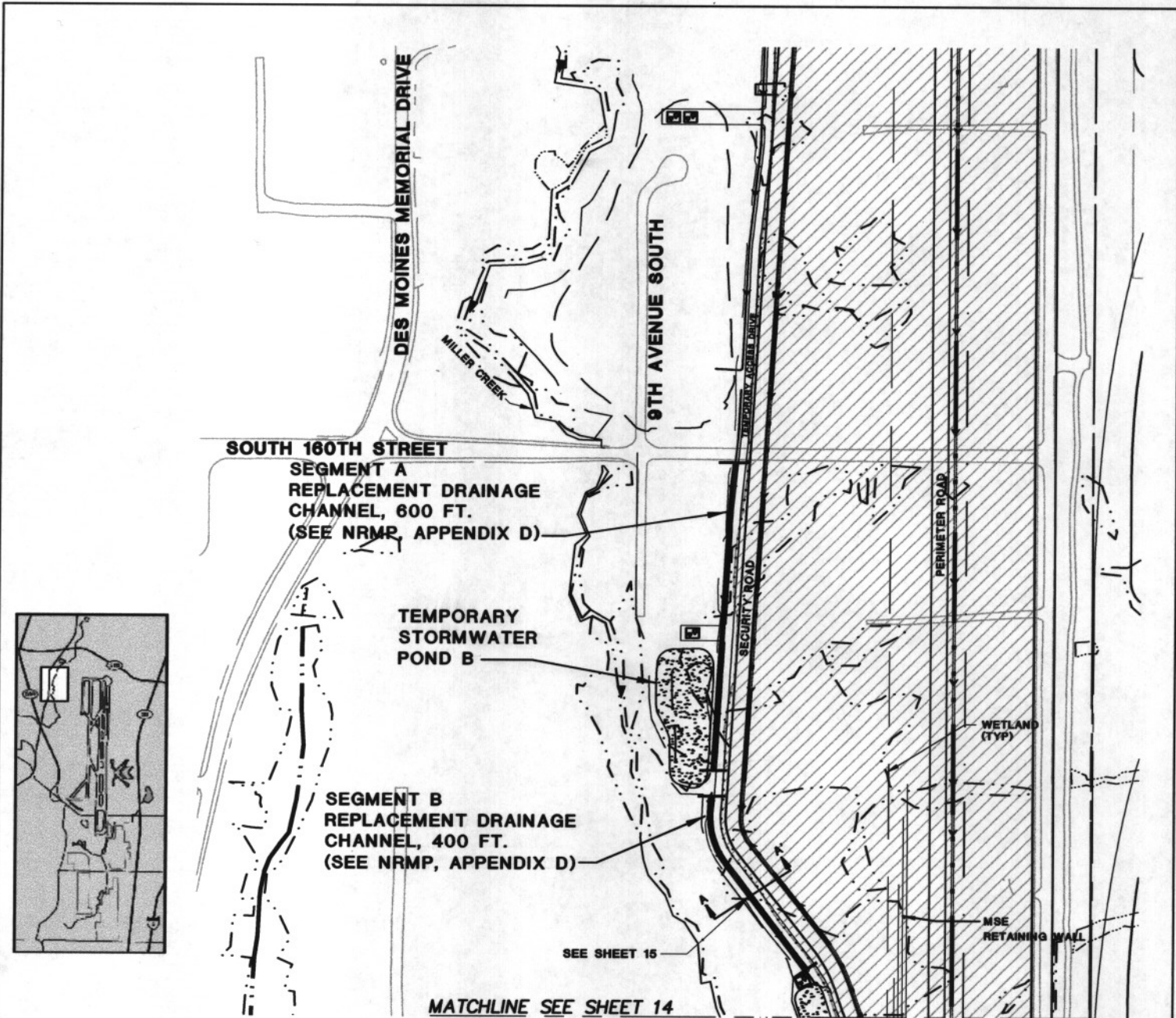
APPLICATION BY: PORT OF SEATTLE

96-4-02325

SCALE AS SHOWN

SHEET 12 OF 18

AUGUST 2002



**SOUTH 160TH STREET**  
**SEGMENT A**  
**REPLACEMENT DRAINAGE**  
**CHANNEL, 600 FT.**  
**(SEE NRMP, APPENDIX D)**

**TEMPORARY**  
**STORMWATER**  
**POND B**

**SEGMENT B**  
**REPLACEMENT DRAINAGE**  
**CHANNEL, 400 FT.**  
**(SEE NRMP, APPENDIX D)**

SEE SHEET 15

**MATCHLINE SEE SHEET 14**

**TEMPORARY**  
**STORMWATER**  
**POND A**

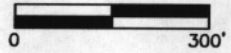
**LEGEND**

- |  |                              |  |                           |
|--|------------------------------|--|---------------------------|
|  | Replacement Drainage Channel |  | Drainage Collection Swale |
|  | Temporary Drainage Channel   |  | Embankment                |
|  | Toe of Embankment            |  | Wetland                   |

**PURPOSE:** MEET PUBLIC NEED FOR EFFICIENT REGIONAL AIR TRANSPORTATION FACILITY TO MEET EXISTING AND FUTURE DEMAND

**DATUM:** SEATAC GRID  
 96-4-02325

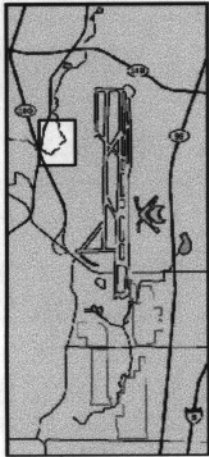
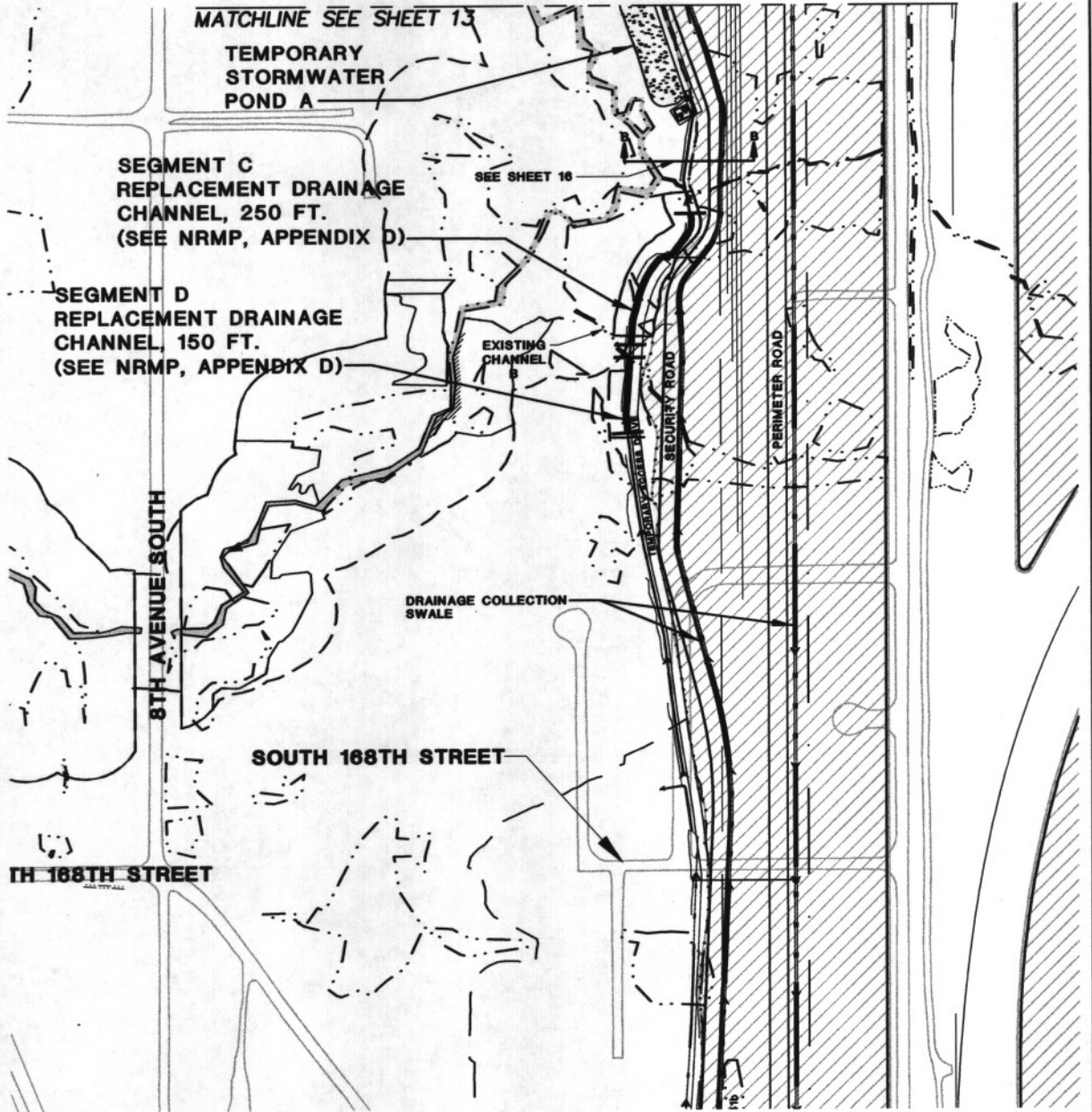
**PLAN VIEW**








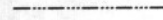
**SCALE:** 1" = 300'

**LOCATION OF PROPOSED REPLACEMENT DRAINAGE CHANNEL AND SWALES ALONG THE WEST SIDE OF THE THIRD RUNWAY EMBANKMENT, NORTH HALF**  
 IN: SECTION 29, TOWNSHIP 23N, RANGE 4E  
 COUNTY OF: KING STATE OF: WA  
 APPLICATION BY: PORT OF SEATTLE  
 SHEET 13 OF 18 AUGUST 2002





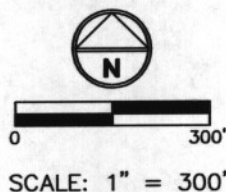
**LEGEND**

-  Replacement Drainage Channel
-  Temporary Drainage Channel
-  Toe of Embankment
-  Drainage Collection Swale
-  Embankment
-  Wetland

PURPOSE: MEET PUBLIC NEED FOR EFFICIENT REGIONAL AIR TRANSPORTATION FACILITY TO MEET EXISTING AND FUTURE DEMAND

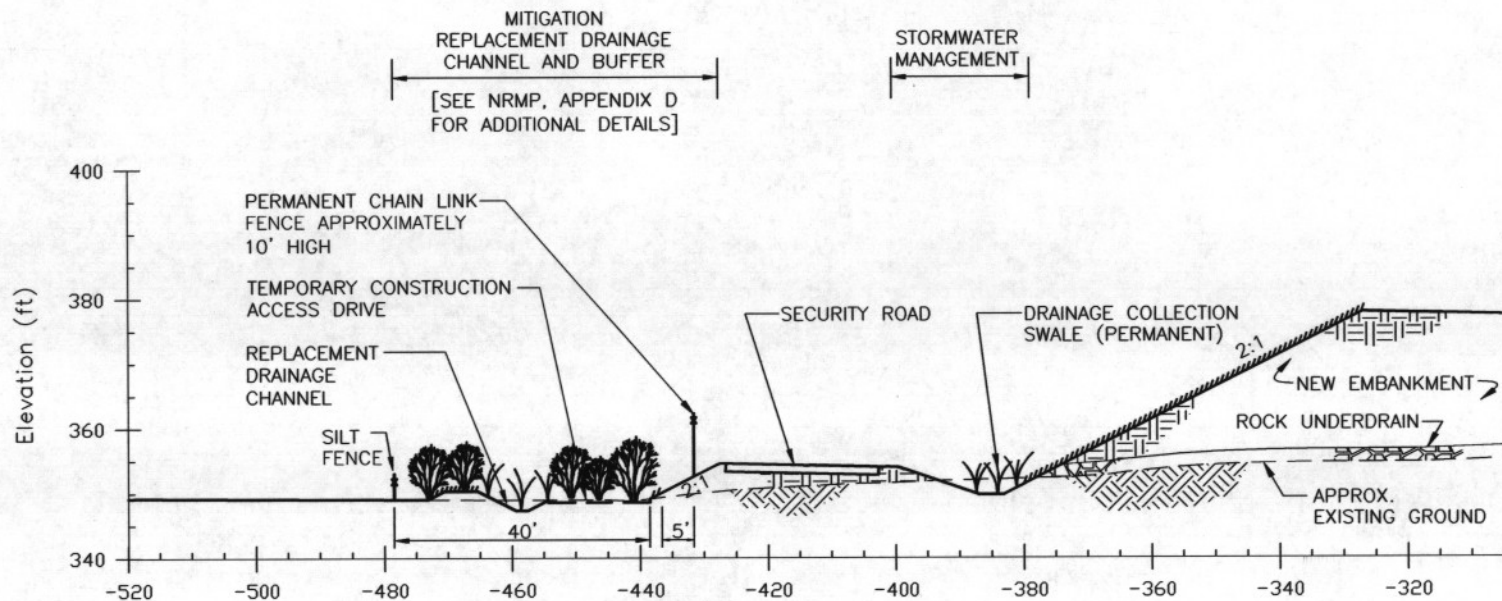
DATUM: SEATAC GRID  
96-4-02325

**PLAN VIEW**



LOCATION OF PROPOSED REPLACEMENT DRAINAGE CHANNEL AND SWALES ALONG THE WEST SIDE OF THE THIRD RUNWAY EMBANKMENT, SOUTH HALF

IN: SECTION 29, TOWNSHIP 23N, RANGE 4E  
COUNTY OF: KING STATE OF: WA  
APPLICATION BY: PORT OF SEATTLE  
SHEET 14 OF 18 AUGUST 2002



A

A'

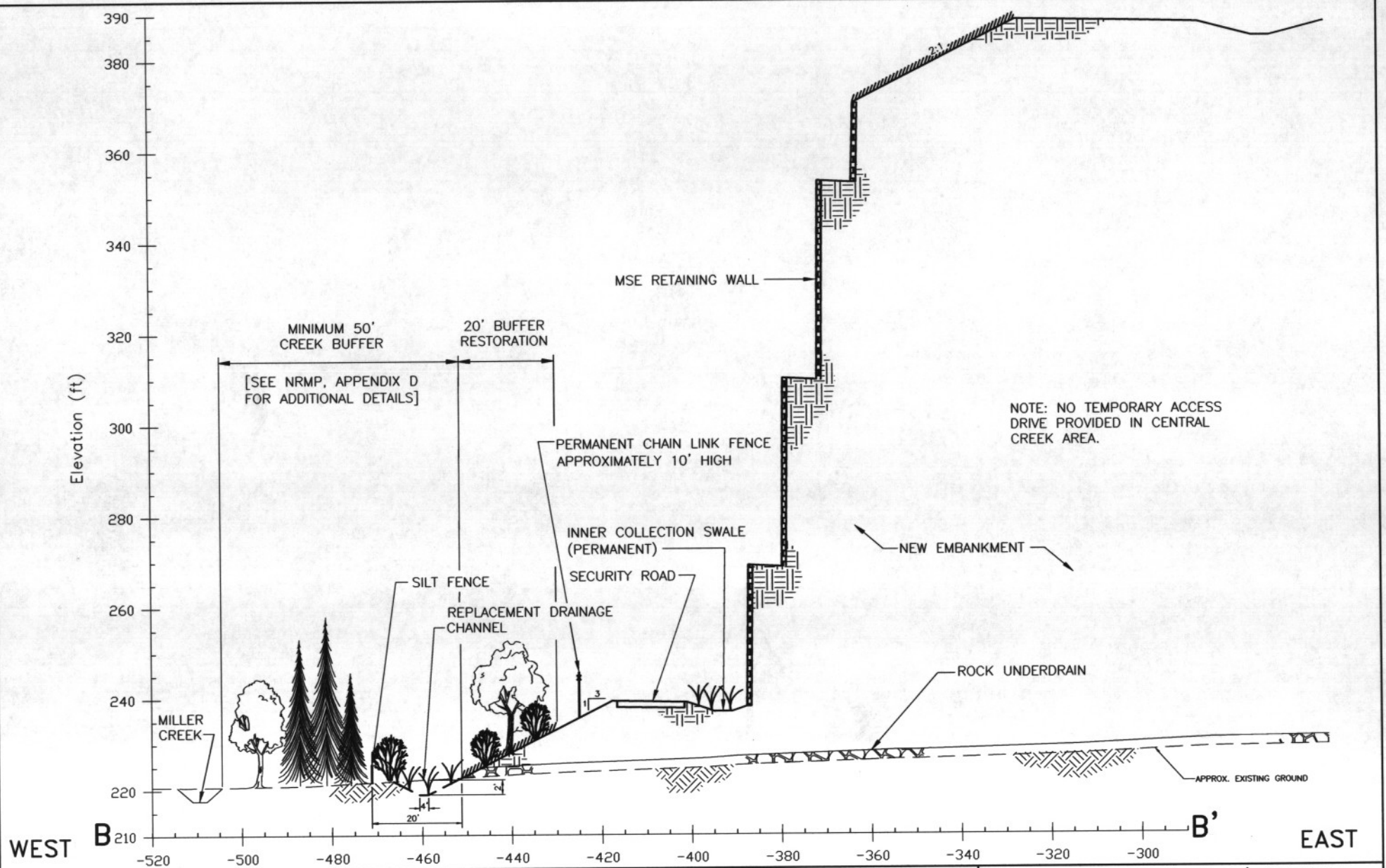
WEST

EAST

SEE SHEET 13 OF 18 FOR CROSS SECTION LOCATION

<p>PURPOSE: MEET PUBLIC NEED FOR EFFICIENT REGIONAL AIR TRANSPORTATION FACILITY TO MEET EXISTING AND FUTURE DEMAND</p> <p>DATUM: VERTICAL: KING COUNTY HORIZONTAL: SEATAC GRID</p> <p>96-4-02325</p>	<p>CROSS SECTION</p> <p>SCALE 1" = 30'</p>	<p>CROSS SECTION A-A' OF THE REPLACEMENT DRAINAGE CHANNEL, DRAINAGE COLLECTION SWALE AND THIRD RUNWAY EMBANKMENT</p> <p>IN: SECTION 29, TOWNSHIP 23N, RANGE 4E  COUNTY OF: KING STATE OF: WA  APPLICATION BY: PORT OF SEATTLE  SHEET 15 OF 18 AUGUST 2002</p>
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SEE SHEET 16 OF 18  
FOR CROSS SECTION  
LOCATION

**PURPOSE:** MEET PUBLIC NEED FOR  
EFFICIENT REGIONAL AIR  
TRANSPORTATION FACILITY  
TO MEET EXISTING AND  
FUTURE DEMAND

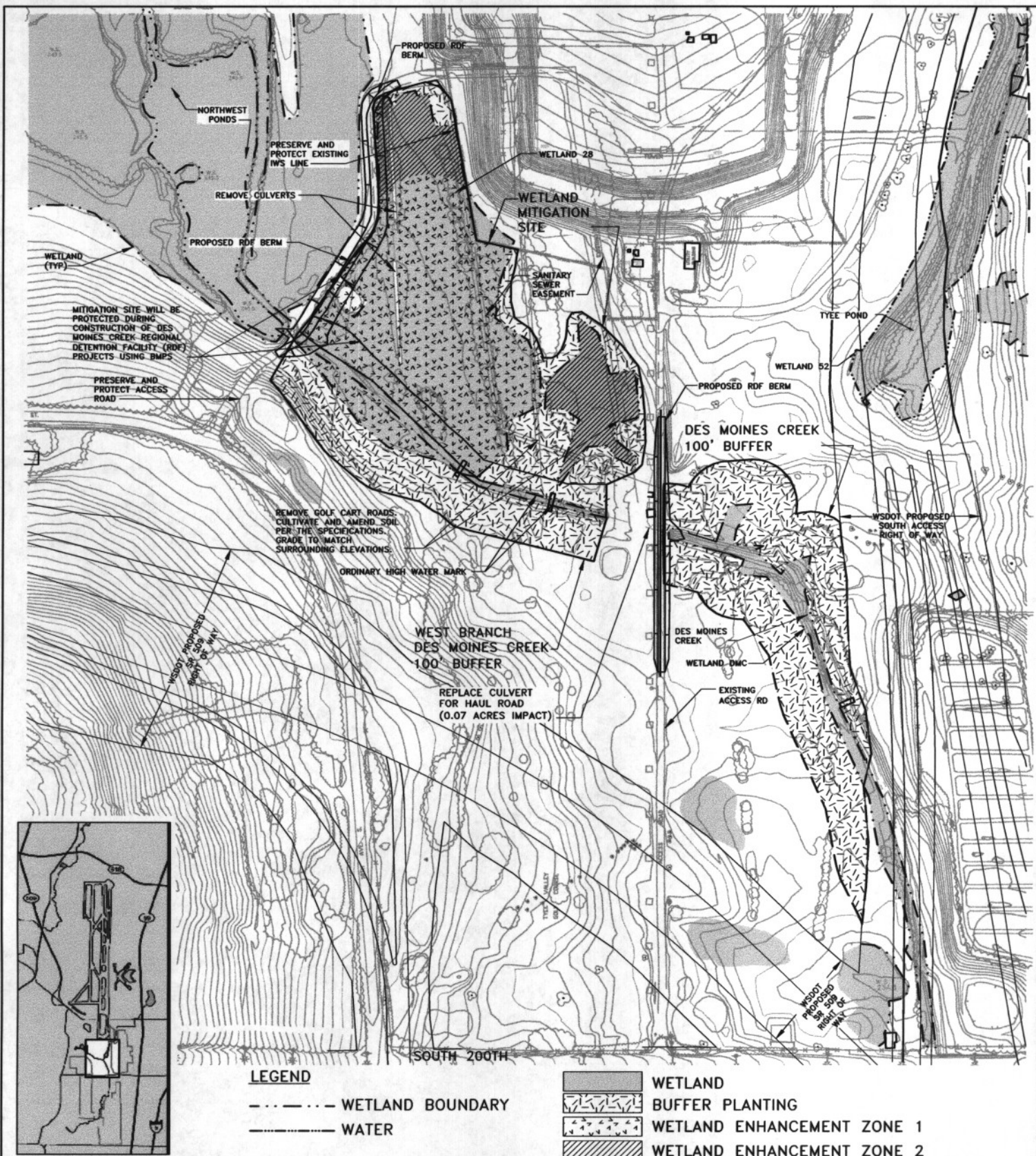
**DATUM:** VERTICAL: KING COUNTY  
HORIZONTAL: SEATAC GRID  
96-4-02325

**CROSS SECTION**

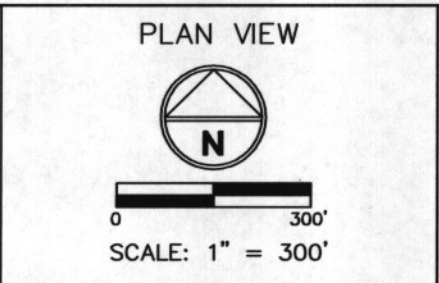
SCALE 1" = 30'

**CROSS SECTION B-B' OF THE  
REPLACEMENT DRAINAGE CHANNEL,  
DRAINAGE COLLECTION SWALE AND  
THIRD RUNWAY EMBANKMENT**

IN: SECTION 29, TOWNSHIP 23N, RANGE 4E  
COUNTY OF: KING      STATE OF: WA  
APPLICATION BY: PORT OF SEATTLE  
SHEET 16 OF 18      AUGUST 2002

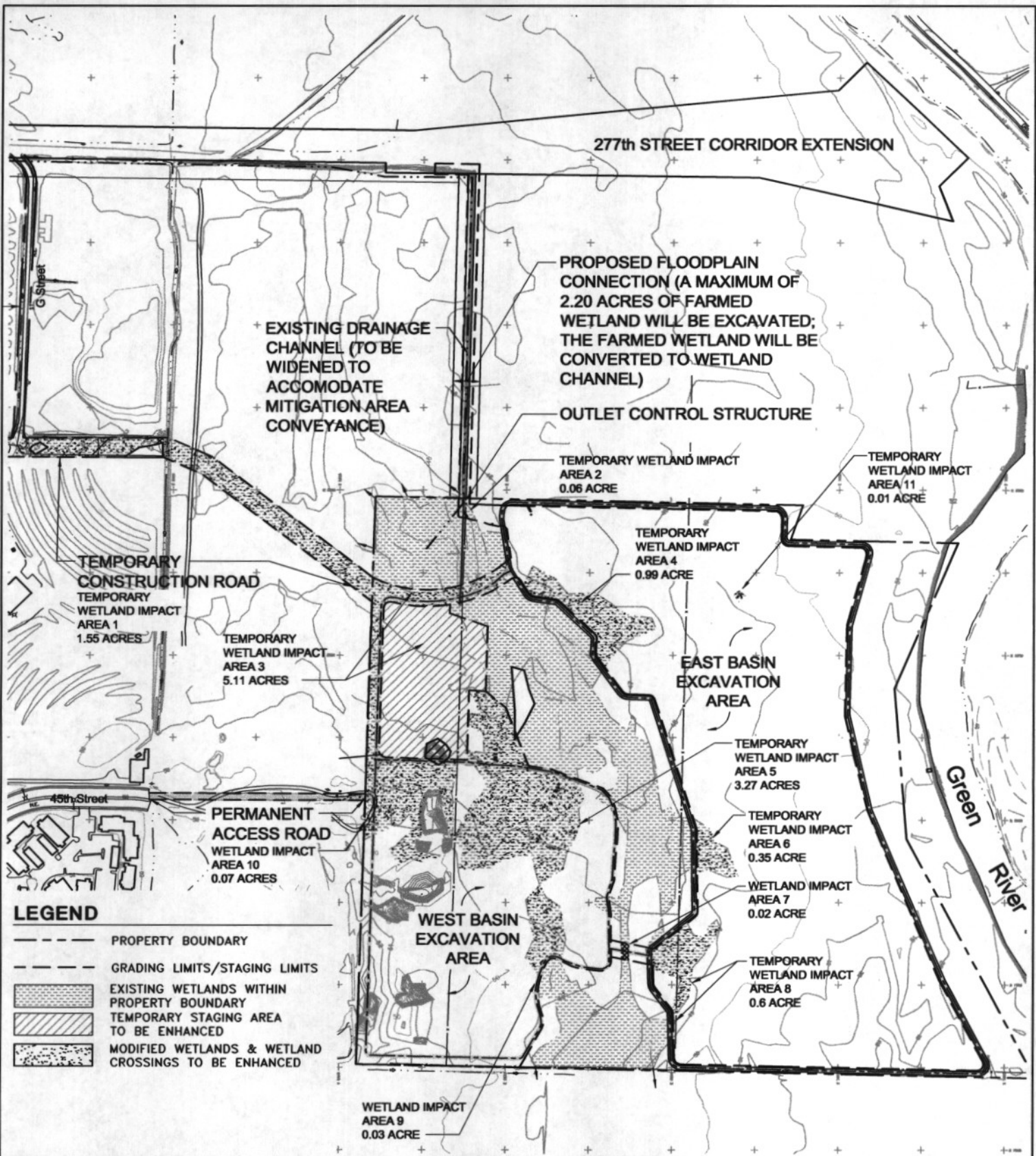


**PURPOSE:** MEET PUBLIC NEED FOR EFFICIENT REGIONAL AIR TRANSPORTATION FACILITY TO MEET EXISTING AND FUTURE DEMAND  
  
**DATUM:** NGVD 29/AUBURN  
 96-4-02325



**LOCATION OF WETLAND ENHANCEMENT ON THE TYEE VALLEY GOLF COURSE, DES MOINES CREEK BASIN**  
**IN:** SECTION 4,5 TOWNSHIP 22N, RANGE 5E  
**COUNTY OF:** KING      **STATE OF:** WA  
**APPLICATION BY:** PORT OF SEATTLE  
**SHEET 17 OF 18**      **AUGUST 2002**

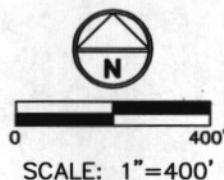




**PURPOSE:** MEET PUBLIC NEED FOR EFFICIENT REGIONAL AIR TRANSPORTATION FACILITY TO MEET EXISTING AND FUTURE DEMAND

**DATUM:** NGVD 29/AUBURN  
96-4-02325

**PLAN VIEW**



**LOCATION OF TEMPORARY/PERMANENT WETLAND IMPACTS, AUBURN MITIGATION SITE IN:** SECTION 31, TOWNSHIP 22N, RANGE 5E  
**COUNTY OF:** KING **STATE OF:** WA  
**APPLICATION BY:** PORT OF SEATTLE  
**SHEET 18 OF 18** **AUGUST 2002**