



NO	DATE	BY	REVISIONS	CK'D	APP'Y'D	NO	DATE	BY	REVISIONS	CK'D	APP'Y'D

**PORT OF PORTLAND**  
PORTLAND, OREGON

REGISTERED  
283  
TIMOTHY C. VANWORMER  
OREGON  
LANDSCAPE ARCHITECT

93D074  
DESIGN NUMBER

21747  
PROJECT NUMBER

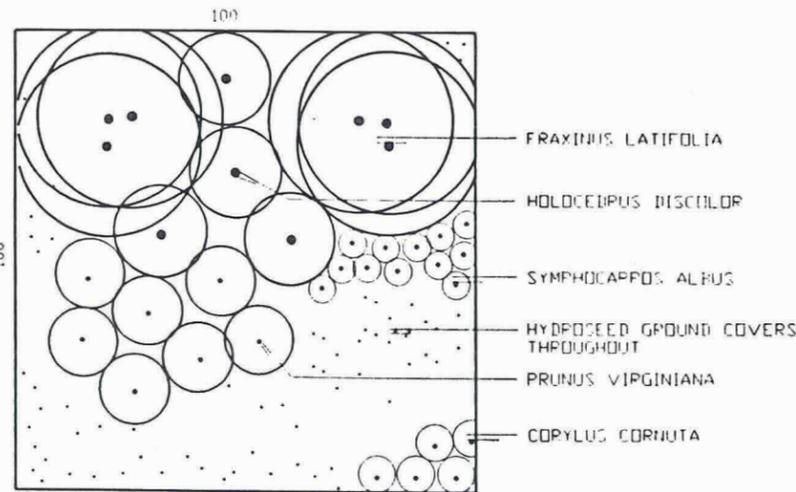
DESIGNED BY	T. VAN WORMER
DRAWN BY	G. MOYLE
CHECKED BY	T. VAN WORMER
DATE	FEB 1994
SCALE	1" = 200'

**PORTLAND INTERNATIONAL AIRPORT**

**AIRTRANS CENTER WEST AND NE BUFFALO STREET MITIGATION  
GRADING AND LANDSCAPING  
SITE PLAN**

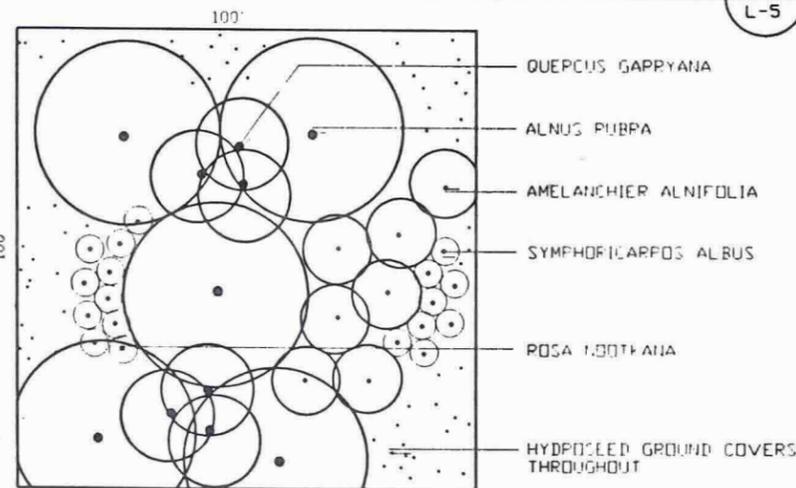
SUBMITTED BY *[Signature]*

DRAWING NO.  
**PDX 94-5 1/5 (L-1)**



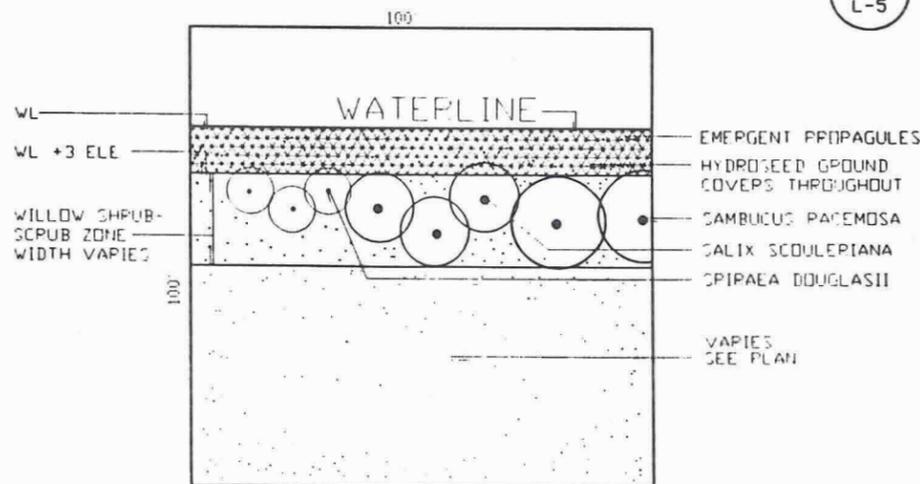
LOW WOODLAND SAMPLE PLANTING

1  
L-5



HIGH WOODLAND SAMPLE PLANTING

2  
L-5



EMERGENT MARSH/WILLOW SHRUB-SCRUB SAMPLE PLANTING AT WATER

3  
L-5

BUFFALO SITE PLANT LISTS

LOW WOODLAND PLANT LIST

TYPE	PLANTING NOTES	QUANTITY
<b>Trees</b>		
Fraxinus latifolia	4-5', cont., Groups of 3-5, 60' O.C.	125
<b>Shrubs</b>		
Prunus virginiana	3-4', cont., Group of 3-5, 40' O.C.	40
Crataegus douglasi	3-4' cont., 20' O.C., Group of 3	125
Holodiscus discolor	3-4' cont., 15' O.C.	40
Symphoricarpos albus	3-4' cont., 6' O.C.	40
Corylus cornuta	3-4' cont., Groups of 3-5, 40' O.C.	80
<b>Ground Covers</b>		
Elymus glaucus	10 lbs./Acre, Hydroseed mix throughout	
Festuca rubra v. 'Rubra'	10 lbs./Acre, Hydroseed mix throughout	
'Regreen' (Cover Crop)	5 lbs./Acre, Hydroseed mix throughout	
Lupinus bicolor	1 lbs./Acre, Hydroseed mix throughout	

HIGH WOODLAND PLANT LIST

TYPE	PLANTING NOTES	QUANTITY
<b>Trees</b>		
Alnus rubra	3-4', cont./, Groups of 3-5, 40' O.C.	125
Quercus garyana	1-2 gal., Groups of 3, 10' O.C.	125
<b>Shrubs</b>		
Amelanchier alnifolia	3-4' cont., 15' O.C.	175
Rosa nootkana	3-4' cont., 6' O.C.	175
Symphoricarpos albus	3-4' cont., 6' O.C.	175
Corylus cornuta	3-4' cont., Groups of 3-5, 40 O.C.	125
<b>Ground Covers</b>		
Elymus glaucus	10 lbs./Acre, Hydroseed mix throughout	
Festuca rubra v. 'Rubra'	10 lbs./Acre, Hydroseed mix throughout	
'Regreen' (Cover Crop)	5 lbs./Acre, Hydroseed mix throughout	

WILLOW SHRUB-SCRUB PLANT LIST

TYPE	PLANTING NOTES	QUANTITY
<b>Trees</b>		
Fraxinus latifolia	4-5' cont., 40', O.C. -- Group of 3	44
<b>Shrubs</b>		
Cornus stolonifera	2-3' cont., -- 15' O.C.	16
Physocarpus capitatus	2-3' cont., -- 8' O.C.	14
Ribes sanguineum	1-2' cont., -- 8' O.C.	17
Rosa pisocarpa	1-2' cont., -- 8' O.C.	20
Salix scouleriana	1-2' cont., Groups of 3, -- 15' O.C.	15
Sambucus racemosa	3-4' cont., Groups of 3, -- 20' O.C.	15
Spiraea douglasii	2-3' cont., Groups of 3, -- 10' O.C.	20
<b>Ground Covers</b>		
Alopecurus geniculatus	.5 lbs./Acre, Hydro-Seed mix throughout	
Elymus glaucus	10 lbs./Acre, Hydro-Seed mix throughout	
Festuca rubra v. 'Rubra'	10 lbs./Acre, Hydro-Seed mix throughout	
'Regreen' (Cover Crop)	5 lbs./Acre	

EMERGENT MARSH PLANT LIST

TYPE	PLANTING NOTES
<b>Ground Covers</b>	
Alopecurus geniculatus	.5 lbs./Acre - Hydroseed throughout
Beckmannia syzigachne	10 lbs./Acre - Hydroseed throughout
Carex densa	1" Propagules - 5' o.c. (WL - WL+3' elev.)
Carex obovata	1" Propagules - 5' o.c. (WL - WL+3' elev.)
Deschampsia caespitosa	4 lbs./Acre - Hydroseed
Eleocharis palustris	1" Propagules - 5' o.c. (WL - WL+3' elev.)
Elymus glaucus	3 lbs./Acre - Hydroseed throughout
Juncus effusus	1" Propagules - 5' o.c. (WL - WL+3' elev.)
Juncus tenuis	1" Propagules - 5' o.c. (WL - WL+3' elev.)
'Regreen' (Cover Crop)	5 lbs./Acre - Hydroseed throughout
Scirpus microcarpus	1" propagules - 5' o.c. (WL - WL+3' elev.)

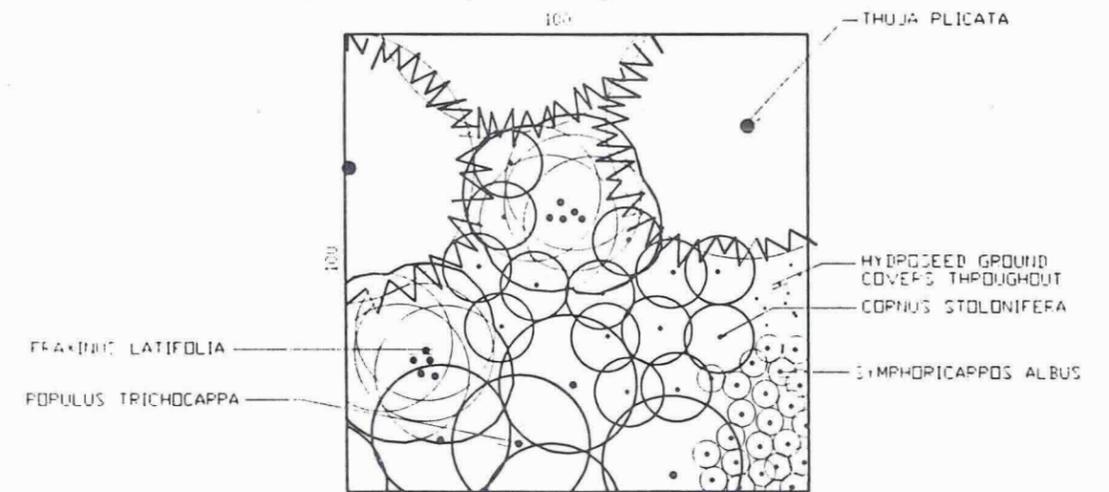
SEEDED MEADOW PLANT LIST

TYPE	PLANTING NOTES
<b>Ground Cover</b>	
Achillea millefolium	1/2 oz./acre, hydroseed as mix throughout
Agrostis gigantea	2 lbs./acre, hydroseed as mix throughout
Aster chilensis halli	1 oz./acre, hydroseed as mix throughout
Aster subspicatus	1 oz./acre, hydroseed as mix throughout
Anaphalis margaritaceae	1 lb./acre, hydroseed as mix throughout
Aquilegia formosa	5 oz./acre, hydroseed as mix throughout
Bromus carinatus	4 lbs./acre, hydroseed as mix throughout
Clarkia amoena	2 oz./acre, hydroseed as mix throughout
Elymus glauca	10 lbs./acre, hydroseed as mix throughout
Festuca rubra v. 'Rubra'	10 lbs./acre, hydroseed as mix throughout
Lupinus bicolor	2 lbs./acre, hydroseed as mix throughout
Lupinus polyphyllus	2 lbs./acre, hydroseed as mix throughout
'Regreen' (covercrop)	5 lbs./acre, hydroseed as mix throughout
Solidago canadensis	2 oz./acre, hydroseed as mix throughout

ELROD SITE PLANT LIST

WOODLAND BUFFER PLANT LIST

TYPE	PLANTING NOTES	QUANTITY
<b>Trees</b>		
Abies grandis	3' - 4' cont., -- 60' O.C.	50
Fraxinus latifolia	4'-5' cont., Groups of 3-5, 60' O.C.	400
Populus trichocarpa	4'-5' cont., -- 30' O.C.	280
Thuja plicata	3'-4' cont., -- 60' O.C.	100
Pseudotsuga menziesii	3'-4' cont., -- 60' O.C.	50
<b>Shrubs</b>		
Corylus Cornuta	3'-4' cont., Groups of 3-5, 40' O.C.	375
Physocarpus capitatus	1'-2' cont., -- 8' O.C.	100
Cornus stolonifera	3'-4' cont., -- 15' O.C.	250
Holodiscus discolor	3'-4' cont., -- 15' O.C.	125
Rosa nutkana	1'-2' cont., -- 6' O.C.	375
Salix sitchensis	3'-4' cont., -- 15' O.C.	75
Symphoricarpos albus	3'-4' cont., -- 6' O.C.	286
Acer circinatum	3'-4' cont., multi-stem, Groups of 3-5, 45' O.C.	350
<b>Ground Covers</b>		
Elymus glaucus	10 lbs./Acre hydroseed mix throughout	
Festuca rubra v. 'Rubra'	10 lbs./Acre hydroseed mix throughout	
Lupinus bicolor	1 lb./Acre hydroseed mix throughout	
'Regreen' (Cover Crop)	5 lbs./Acre hydroseed mix throughout	
<b>Ground Layer</b>		
Elymus glaucus	10 lbs./Acre hydroseed mix throughout	
'Regreen' (Cover Crop)	20 lbs./Acre hydroseed mix throughout	
Festuca rubra v. 'Rubra'	10 lbs./Acre hydroseed mix throughout	



WOODLAND BUFFER SAMPLE PLANTING

4  
L-5

PLANTING NOTES

SAMPLE PLANTING PLANS DEPICT GENERAL PLANT LAYOUT AND SPACING. ACTUAL SITE CONDITIONS (SOILS, TOPOGRAPHY, AND EXISTING VEGETATION) SHALL BE TAKEN INTO ACCOUNT DURING PLANTING. PLANT TREES, SHRUBS AND PROPAGULES IN NATURAL PATTERNS CORRESPONDING TO EXISTING CONTOURS AND VEGETATION LAYOUT. ALL TREES AND SHRUBS FOR LANDSCAPE ARCHITECTS APPROVAL PRIOR TO PLANTING.

AS CONSTRUCTED

NO	DATE	BY	REVISIONS	CHK'D	APP'V'D	NO	DATE	BY	REVISIONS	CHK'D	APP'V'D
	3/95	HJ	AS CONSTRUCTED								
	3/8/94	GEM	AS BID								



PORT OF PORTLAND  
PORTLAND, OREGON

93D074  
DESIGN NUMBER

21747  
PROJECT NUMBER

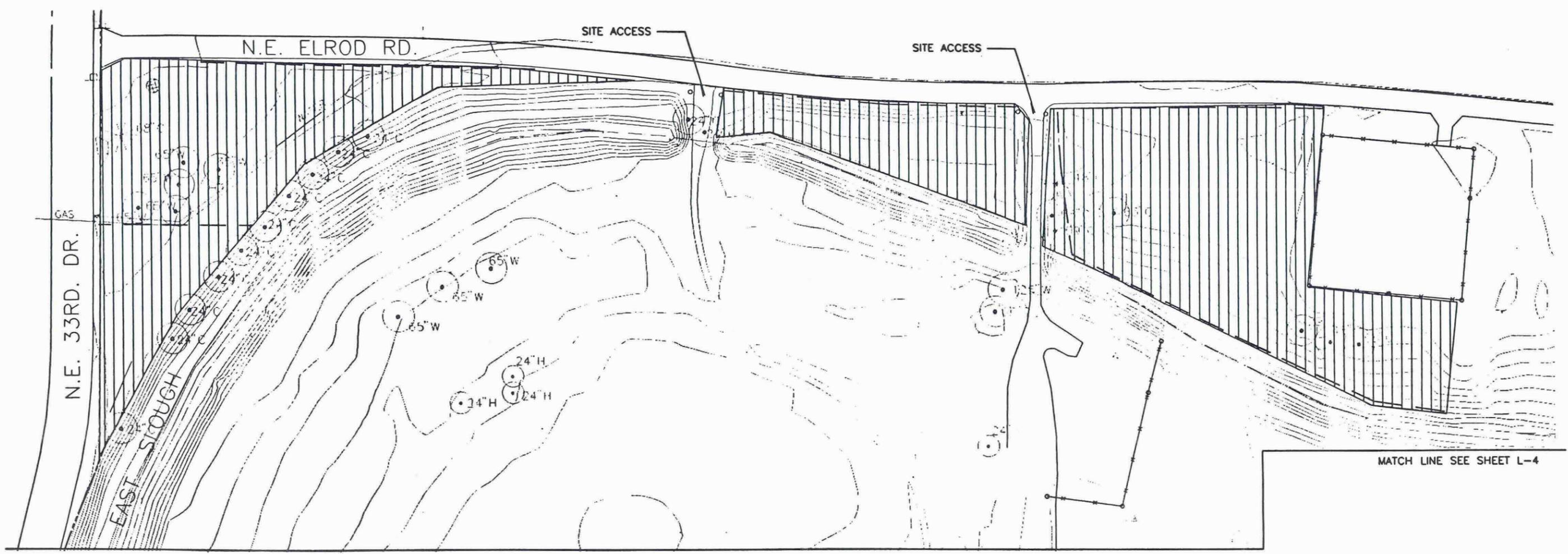


DESIGNED BY: T. VAN WORMER  
DRAWN BY: T. VAN WORMER  
CHECKED BY:  
DATE: FEBRUARY, 1994  
SCALE: 1" = 20'

PORTLAND INTERNATIONAL AIRPORT

AIRTRANS CENTER WEST AND NE BUFFALO STREET MITIGATION  
GRADING AND LANDSCAPING  
SITE DETAILS

SUBMITTED BY: [Signature]  
DRAWING NO: PDX 94-5 5/5 (L-5)



MATCH LINE SEE SHEET L-4

MATCH LINE SEE SHEET L-4

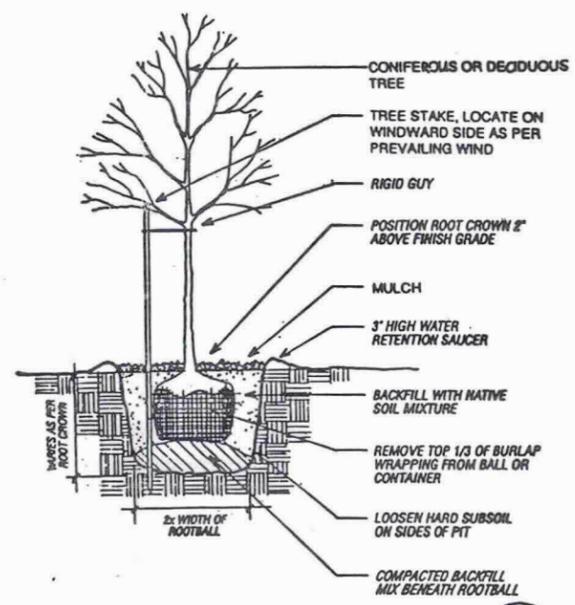
- NOTES**
1. SAVE AND PROTECT ALL EXISTING TREES.
  2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES AND IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
  3. 8' WIDE LANE FOR FUTURE IRRIGATION BY OTHERS. STAKE LOCATION FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO SEEDING OR PLANTING. SEEDED GROUND COVERS ONLY.

- LEGEND**
- EXISTING 2' CONTOUR
  - EXISTING FENCE PROPERTY LINE
  - EXISTING POWER POLE
  - 8' LANE, SEE NOTE 3.
  - ABANDONED WELL

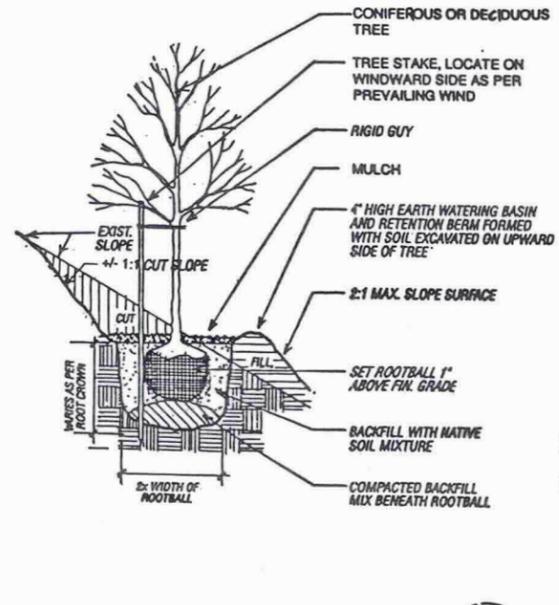
**PLANTING LEGEND**

WOODLAND BUFFER 4 3.0 ACRES  
 44 SHRUBS AND 20 TREES PER 100' X 100' AREA  
 HYDROSEED GROUND COVERS THROUGHOUT

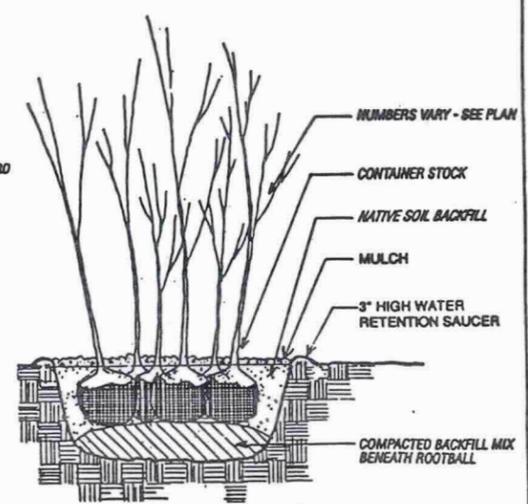
- EXISTING TREE LEGEND**
- A ALDER
  - B BIRCH
  - C COTTONWOOD
  - H HAWTHORN
  - W WILLOW



TYPICAL TREE PLANTING NTS



TYPICAL TREE PLANTING ON SLOPE NTS



TYPICAL GROUPED PLANTING NTS

**AS CONSTRUCTED**

NO.	DATE	BY	REVISIONS	CK'D	APP'V'D	NO.	DATE	BY	REVISIONS	CK'D	APP'V'D

PORT OF PORTLAND  
 PORTLAND, OREGON

93D074 DESIGN NUMBER

21747 PROJECT NUMBER

REGISTERED LANDSCAPE ARCHITECT

DESIGNED BY T. VAN WORMER

DRAWN BY T. VAN WORMER

CHECKED BY

DATE FEBRUARY, 1994

SCALE AS SHOWN

PORTLAND INTERNATIONAL AIRPORT

AIRTRANS CENTER WEST AND NE BUFFALO STREET MITIGATION GRADING AND LANDSCAPING ELROD PLANTING PLAN

SUBMITTED BY

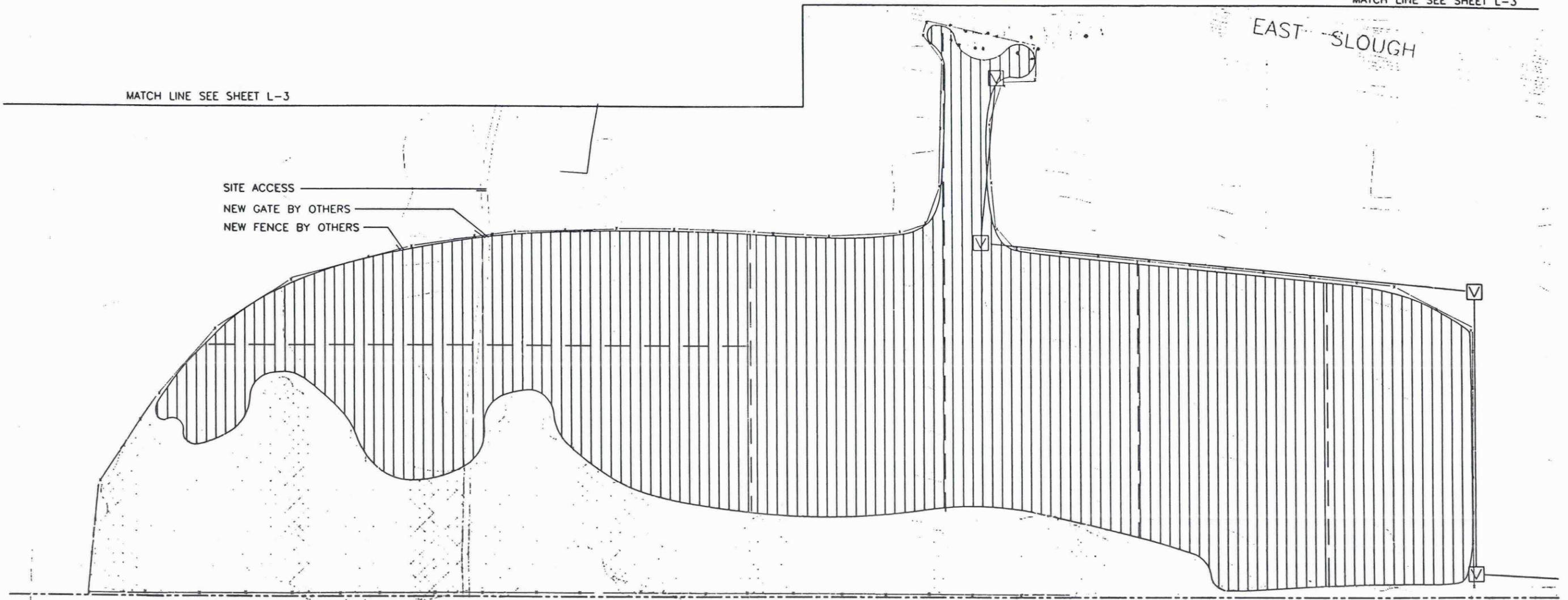
DRAWING NO. PDX 94-5 3/5 (L-3)

MATCH LINE SEE SHEET L-3

EAST SLOUGH

MATCH LINE SEE SHEET L-3

SITE ACCESS  
NEW GATE BY OTHERS  
NEW FENCE BY OTHERS

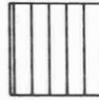


EXISTING TREES SAVE AND PROTECT

**NOTES**

1. SAVE AND PROTECT ALL EXISTING TREES.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES AND IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
3. 8' WIDE LANE FOR FUTURE IRRIGATION BY OTHERS. STAKE LOCATION FOR LANDSCAPE ARCHITECTS APPROVAL PRIOR TO SEEDING OR PLANTING. SEEDING GROUND COVERS ONLY.

**PLANTING LEGEND**


**WOODLAND BUFFER** (4) 7.0 ACRES  
 44 SHRUBS AND 20 TREES (L-5)  
 PER 100' X 100'  
 HYDROSEED GROUND  
 COVERS THROUGHOUT

**EXISTING TREE LEGEND**

A ALDER  
 B BIRCH  
 C COTTONWOOD  
 H HAWTHORN  
 W WILLOW

**LEGEND**

 EXISTING 2' CONTOUR  
 EXISTING FENCE  
 PROPERTY LINE  
 8' LANE. SEE NOTE 3.  
 BURIED FAA CABLE & VAULT PROTECT

**PLANTING PLAN**

SCALE: 1" = 50'

1  
L-4

**AS CONSTRUCTED**

NO	DATE	BY	REVISIONS	CK'D	APP'D	NO	DATE	BY	REVISIONS	CK'D	APP'D
	3/95	HJ	AS CONSTRUCTED								
	5/8/94	GEM	AS BID								



PORT OF PORTLAND  
PORTLAND, OREGON



DESIGNED BY: I. VAN WORMER  
 DRAWN BY: I. VAN WORMER  
 CHECKED BY:  
 DATE: FEBRUARY, 1994  
 SCALE: AS SHOWN

PORTLAND INTERNATIONAL AIRPORT

AIRTRANS CENTER WEST AND NE BUFFALO STREET MITIGATION  
 GRADING AND LANDSCAPING  
 ELROD PLANTING PLAN

SUBMITTED BY: *[Signature]*

DRAWING NO. PDX 94-5 1/5 (L-4)

93D074  
DESIGN NUMBER

21747  
PROJECT NUMBER