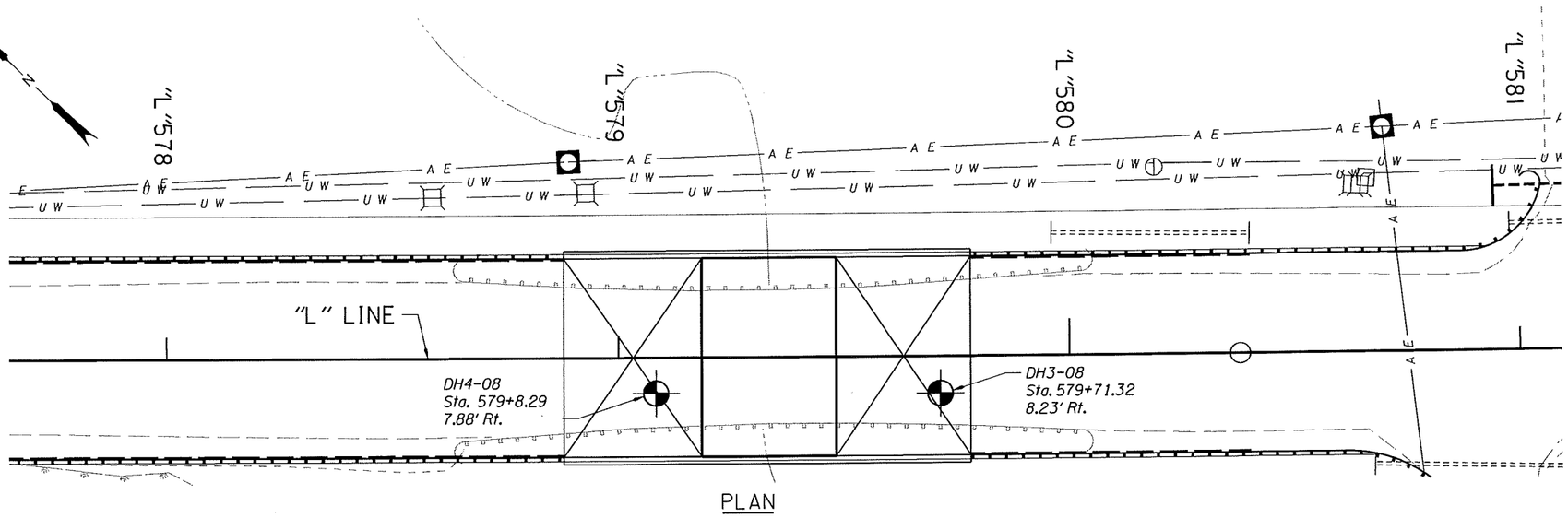
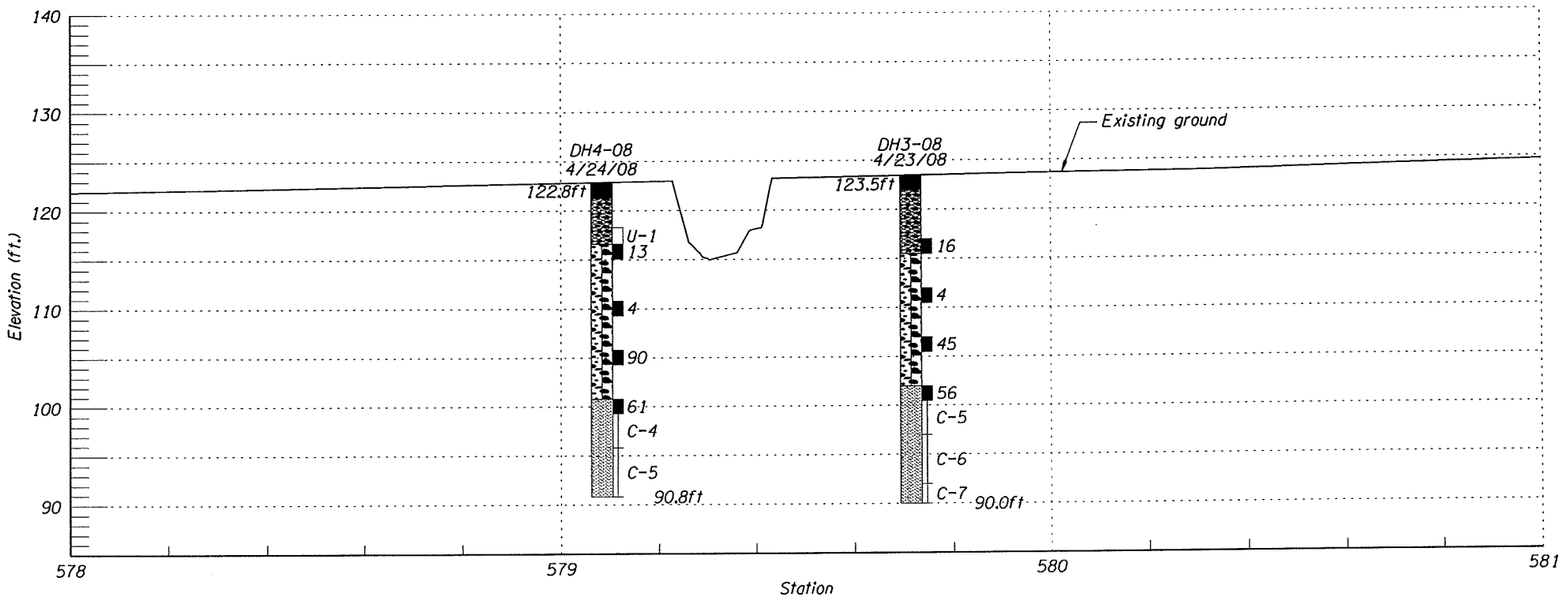


PLAN



"L" PROFILE

Elevations shown are based on North American Vertical Datum (1988)

Unit Description

Asphalt Concrete and Aggregate Base (Fill)

Sandy SILT with some gravel to sandy GRAVEL with some silt, MH to GW-GM, grey and brown, nonplastic to medium plasticity, wet, medium dense, gravel to 2" diameter (Fill)

Sandy SILT to sandy silty GRAVEL, MH to GW-GM to GM, grey and orange brown, nonplastic to medium plasticity, wet, medium stiff and loose to very dense, gravel and cobbles to 6" diameter (Alluvium)

SANDSTONE, grey to grey and light grey, moderately weathered, RO, dark grey clay laminations, grading to Sandy SILTSTONE, grey, moderately weathered to fresh, R1 (Bedrock)

Legend

24 ■ = Standard Penetration Test - N Value

C-1 ⌶ = Core Sample

U-1 □ = Undisturbed Sample

DH3-08			
Core	% Rec.	Hardness	R.Q.D.
C5	100	R1	74
C6	100	R1	90
C7	100	R1	67

DH4-08			
Core	% Rec.	Hardness	R.Q.D.
C4	100	R1	52
C5	100	R1	86

Geotechnical data shown on this drawing are a consolidation of information and/or revision in terminology from the drill logs. The drill logs used in compiling this drawing are available upon request. Contractor shall refer to geotechnical reports and drill logs and information contained therein.

△	DATE	REVISION	BY

ACCOMPANIED BY DWGS. See dwg. 84070

DRAFTER: Michael Skelton
DESIGNER: Michael Tardif
CHECKER: ---
REVIEWER: Jeff Berry

CERTIFIED OREGON Michael Skelton GEOTECHNICAL GEOLOGIST — ADVANCE COPY FOR REVIEW ONLY — EXPIRES: 11-30-2010

OREGON DEPARTMENT OF TRANSPORTATION

REGION 2 TECH CENTER

STRUCTURE NO. 21189

DATE APR 2010

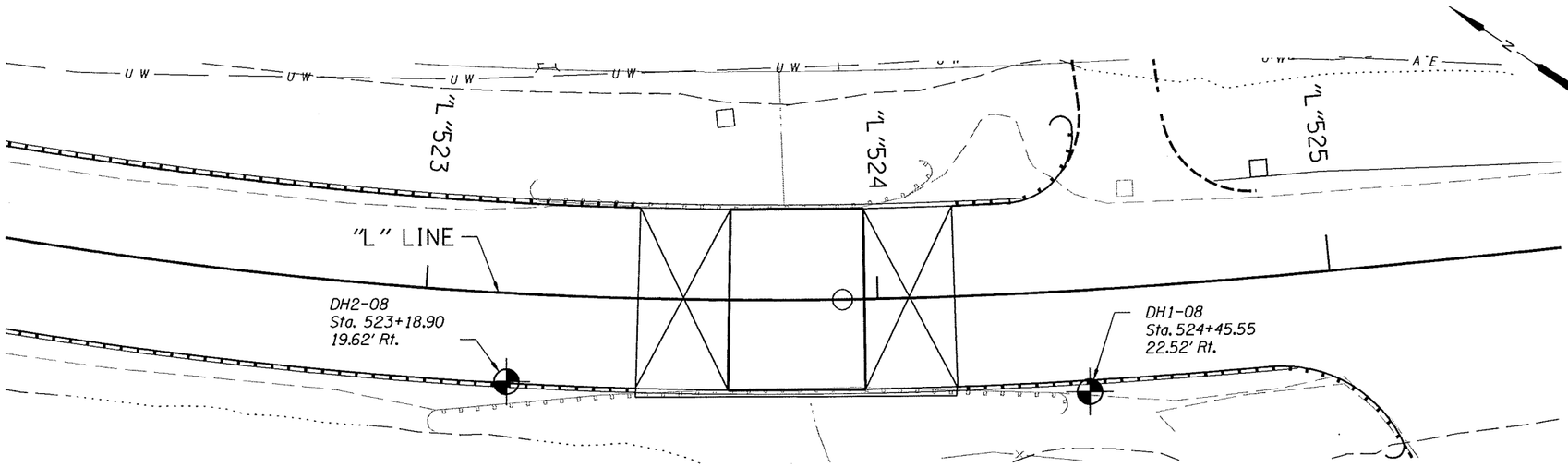
CALC. BOOK ---

JOHNSON CREEK, HWY 47 AT MP 3.26
OR26: VOLMER CREEK BRIDGE &
JOHNSON CREEK BRIDGE PROJECT
SUNSET HIGHWAY (M.P. 3.26) CLATSOP CO.

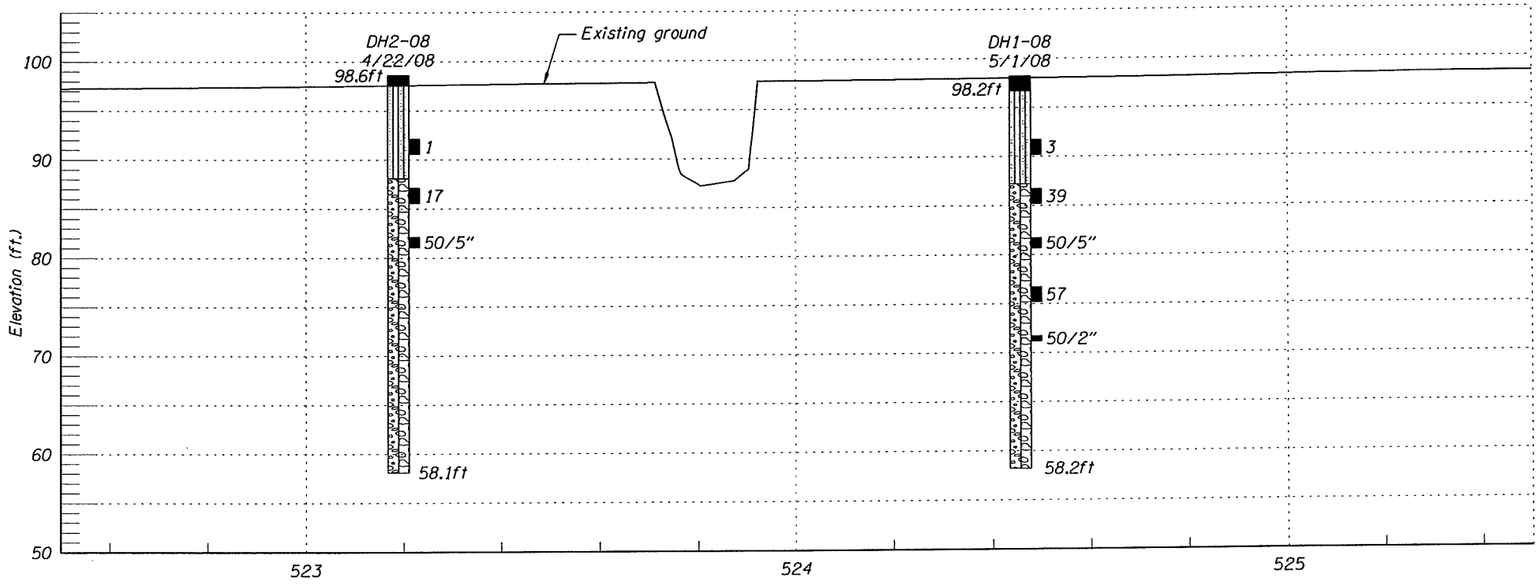
FOUNDATION DATA

SHEET 3 OF 12

DRAWING NO. 84072



PLAN



"L" PROFILE

Elevations shown are based on North American Vertical Datum (1988)

Unit Description

Asphalt Concrete and Aggregate Base (Fill)

Silty SAND with some gravel to sandy SILT with some gravel and varying amounts of organics, SM to MH, orange brown and grey, medium plasticity, wet, very soft to medium stiff, gravel to 3" diameter (Fill)

GRAVEL with some sand and silt and cobbles to sandy GRAVEL with some silt, GP-GM, grey and orange brown, low plasticity to non plastic, wet, medium dense to very dense, cobbles to 6" diameter (Alluvium)

Legend

24 ■ = Standard Penetration Test - N Value

U-1 □ = Undisturbed Sample

Geotechnical data shown on this drawing are a consolidation of information and/or revision in terminology from the drill logs. The drill logs used in compiling this drawing are available upon request. Contractor shall refer to geotechnical reports and drill logs and information contained therein.

△	DATE	REVISION	BY

ACCOMPANIED BY DWGS. See dwg. 84057

DRAFTER: Michael Skelton
DESIGNER: Michael Tardif
CHECKER: ---
REVIEWER: Jeff Berry

CERTIFIED OREGON Michael J. Skelton ENGINEERING GEOLOGIST
ADVANCE FOR REVIEW ONLY
EXPIRES: 11-30-2010

OREGON DEPARTMENT OF TRANSPORTATION

REGION 2 TECH CENTER

STRUCTURE NO. 21188
DATE APR 2010
CALC. BOOK ---

VOLMER CREEK, HWY 47
OR26: VOLMER CREEK BRIDGE &
JOHNSON CREEK BRIDGE PROJECT
SUNSET HIGHWAY (M.P. 2.24) CLATSOP CO.

FOUNDATION DATA

SHEET 3 OF 12
DRAWING NO. 84059

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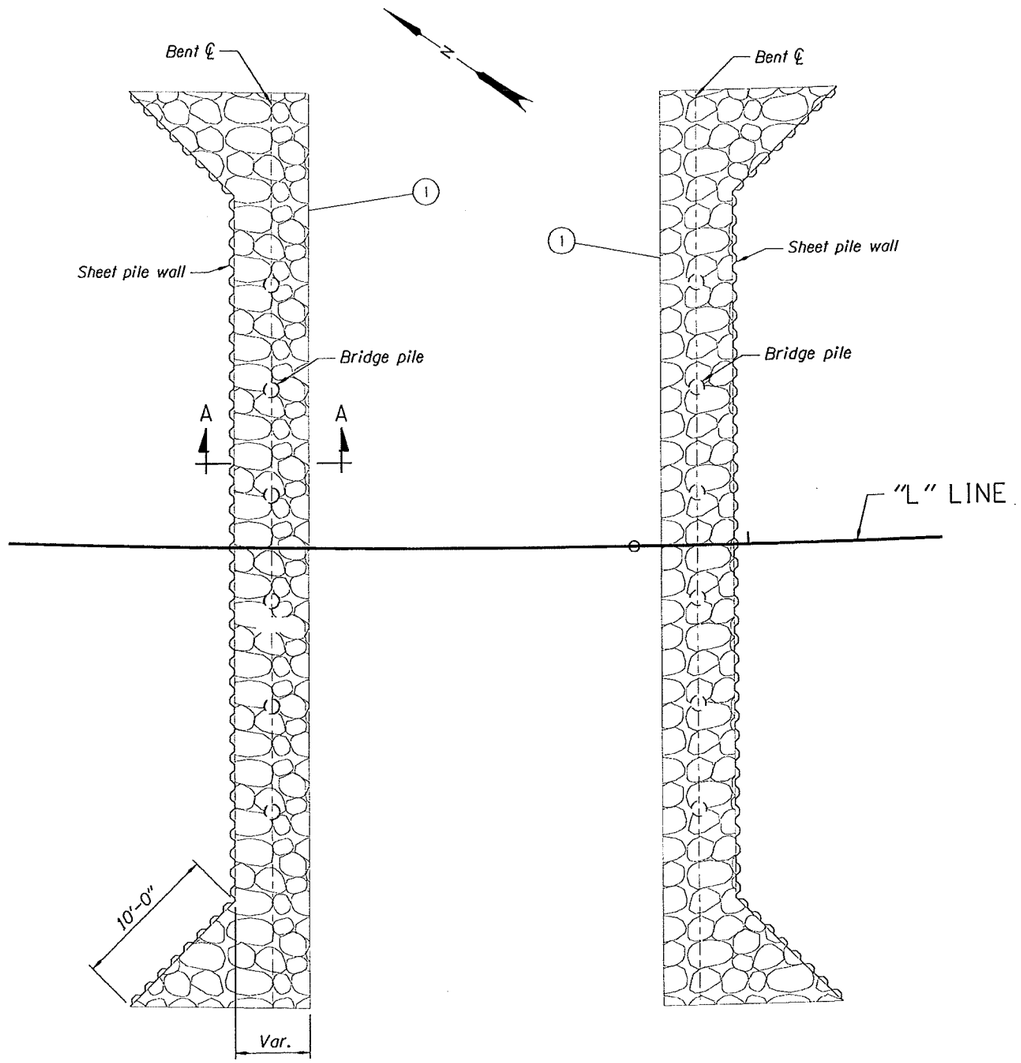
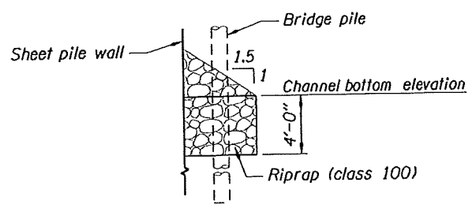
(1) Const. loose riprap (class 100)
Volmer Creek Bridge - 143 cu. yds.
Johnson Creek Bridge - 192 cu. yds.
(For details, see sht. GP-2)



TYPICAL WALL TOE RIPRAP PLAN



SECTION A-A

OREGON DEPARTMENT OF TRANSPORTATION

REGION 2 TECH CENTER

US26: VOLMER CREEK BRIDGE &
JOHNSON CREEK BRIDGE PROJECT
SUNSET HIGHWAY
CLATSOP COUNTY

Reviewed By - Chris Carman, P.E.
Designed By - Bruce A. Carmichael
Drafted By - Sandra Gish

WATERWAY ENHANCEMENT PLAN

SHEET NO. GP

REGISTERED PROFESSIONAL ENGINEER
6571
OREGON
JANUARY 23, 2001
BRUCE A. CARMICHAEL

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EXPIRES:

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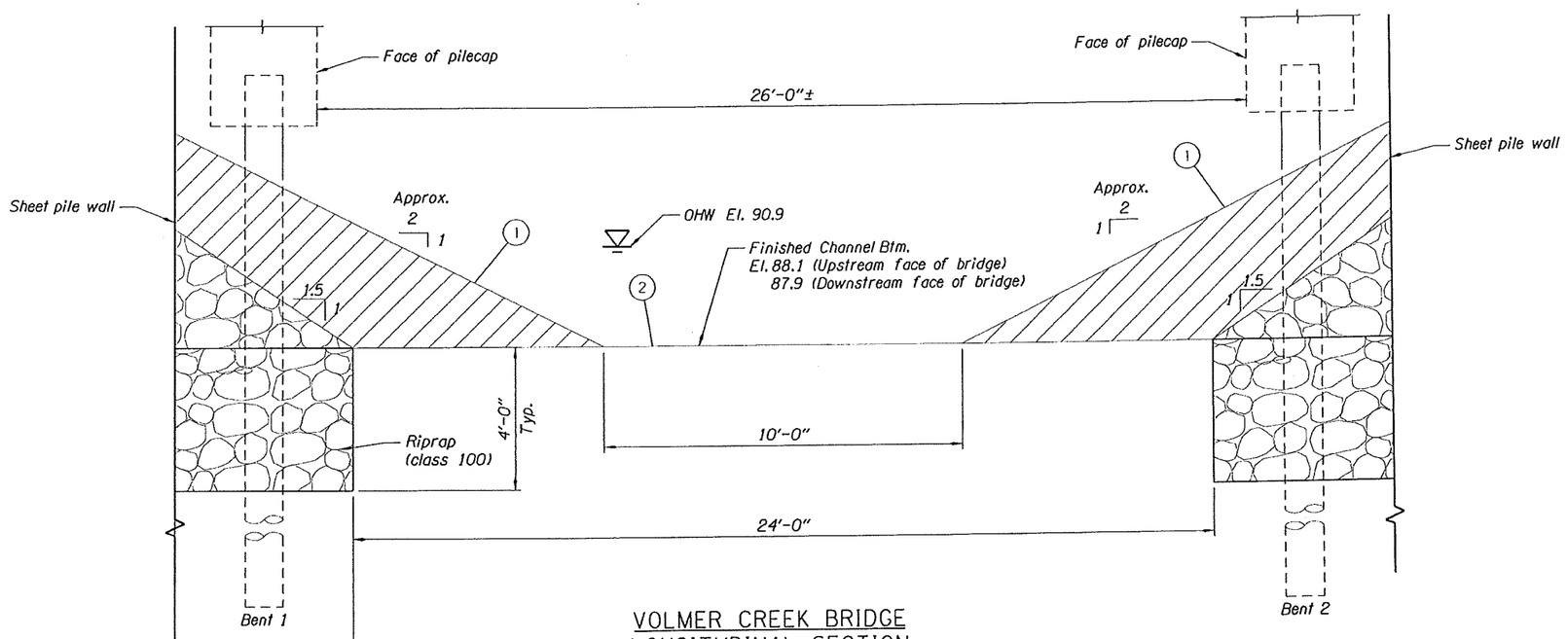
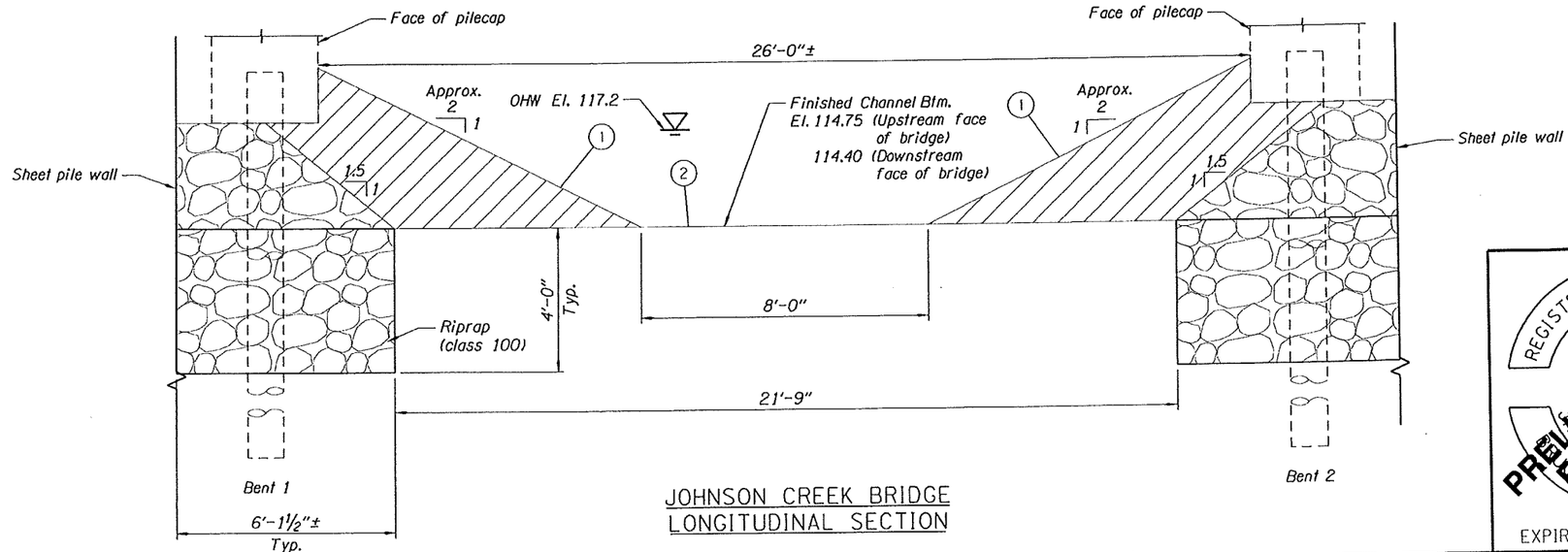


VOLMER CREEK BRIDGE
LONGITUDINAL SECTION



JOHNSON CREEK BRIDGE
LONGITUDINAL SECTION

(1) Construct channel side slopes with material saved from excavation. Slope material a mix of 2 parts sand and finer and 3 parts gravel and cobble.
Volmer Creek Bridge - approx. 100 cu.yds.
Johnson Creek Bridge - approx. 85 cu.yds.

(2) Save channel bottom material (bed load) disturbed by construction of channel under bridge. Place this material on top of re-constructed channel. Do no exceed finished channel bottom elevation.

Erodible channel walls

OREGON DEPARTMENT OF TRANSPORTATION

REGION 2 TECH CENTER

US26: VOLMER CREEK BRIDGE &
JOHNSON CREEK BRIDGE PROJECT
SUNSET HIGHWAY
CLATSOP COUNTY

Reviewed By - Chris Carman, P.E.
Designed By - Bruce A. Carmichael
Drafted By - Sandra Gish

WATERWAY ENHANCEMENT SECTIONS

SHEET NO. GP-2

REGISTERED PROFESSIONAL ENGINEER
6574
OREGON
JANUARY 23, 2001
BRUCE A. CARMICHAEL

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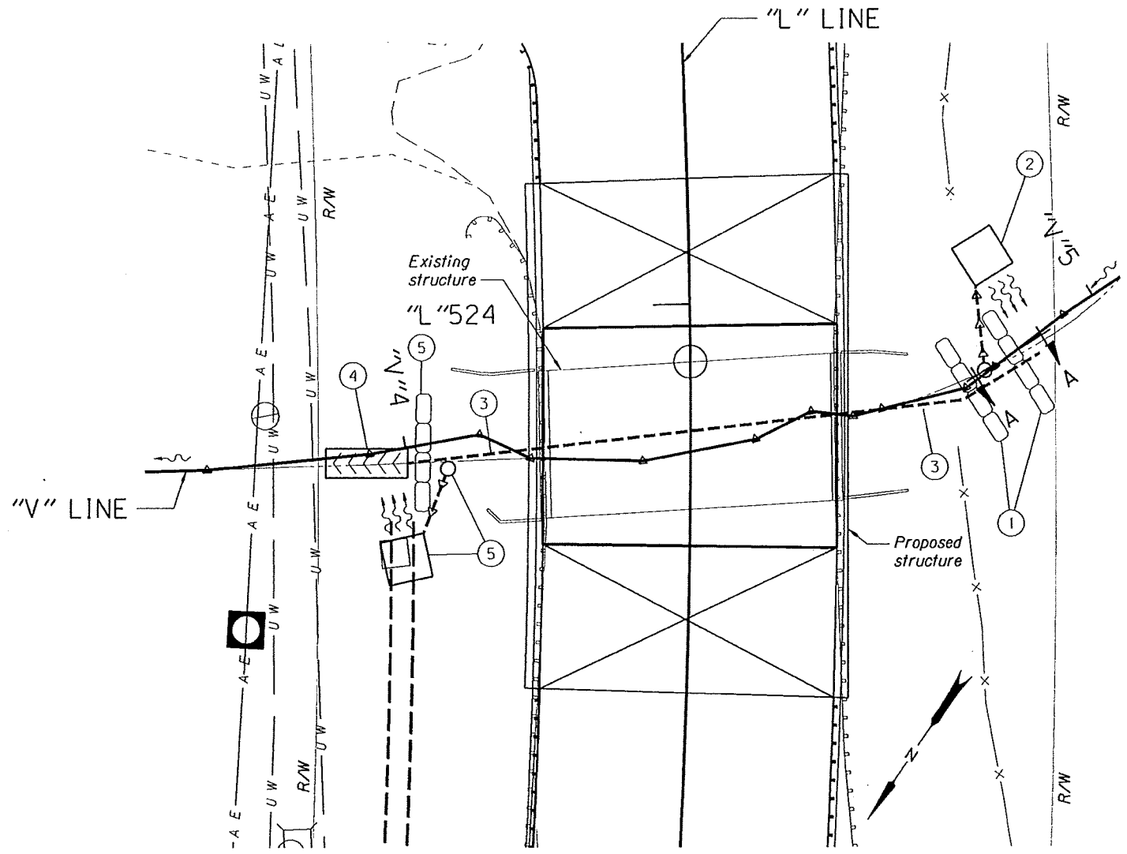
EXPIRES:

VOLMER CREEK



PLAN

(1) *Inst. primary sand bag dam across the creek channel, upstream of the work area to be isolated. Inst. secondary sand bag, if needed, to stop water flow into work area.*

(2) *Inst. pump/filter system. Pump water seeping past upstream sand bag dam to an approved area upstream and filter water to control turbidity.*

(3) *Inst. water diversion pipe and size pipe, dams and pump based on "Maximum Predicted Discharge" and based on site conditions. Reposition pipe in work area, as necessary, as work progresses.*

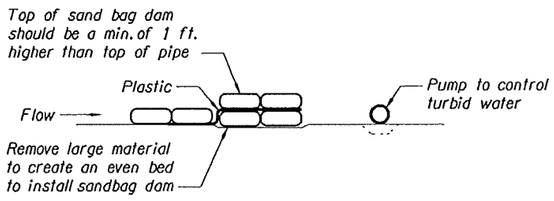
(4) *Inst. hydraulic energy dissapator at Temporary Water Management pipe outlet to prevent scour.*

(5) *Inst. pump/filter and sand bag dam, as necessary, to filter water if turbid.*

<u>GENERAL NOTES:</u>
The implementation of these Temporary Water Management plans and the construction, maintenance, replacement and upgrading of these facilities are the responsibility of the Contractor until all construction is completed and approved.

The Temporary Water Management facilities shown on this plan are the minimum requirements for anticipated site conditions. During the construction periods, these facilities shall be upgraded for unexpected storm events and to insure that sediment and sediment-laden water does not leave the site.

Fish salvage must be completed prior to the start of Temporary Water Management.



SECTION A-A

<u>NOTE:</u>
Width and depth of sand bag dam will vary depending on stream elevation contours and discharge rates.

Estimated discharge for temporary water management:

MAXIMUM PREDICTED DISCHARGE

IN WATER WORK PERIOD	*DISCHARGE, CFS (gpm)*
JULY 1 - SEPTEMBER 15	*4.07 (1,825)*

Discharges are not expected to exceed the maximum predicted discharge.

OHW El. 90.9

REGISTERED PROFESSIONAL ENGINEER
65[illegible]
OREGON
JANUARY 23, 2001
A. CARMICHAEL
EXPIRES:

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OREGON DEPARTMENT OF TRANSPORTATION

REGION 2 TECH CENTER

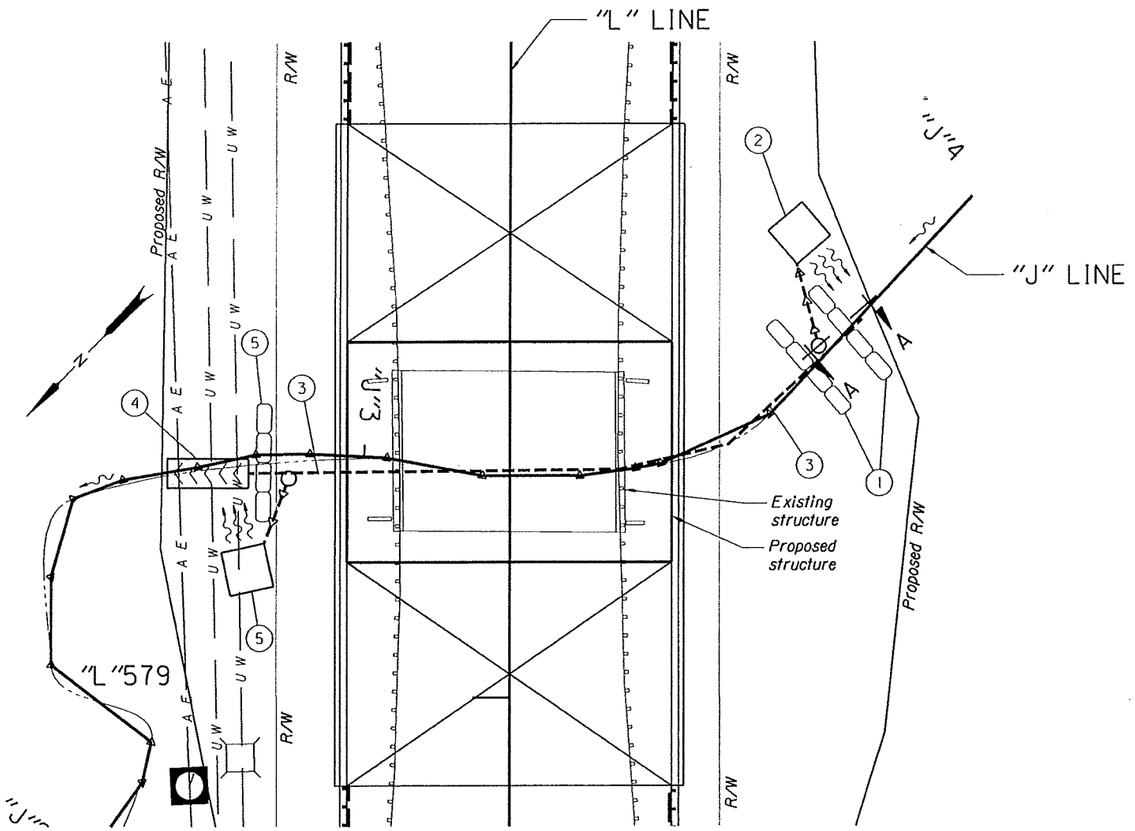
US26: VOLMER CREEK BRIDGE & JOHNSON CREEK BRIDGE PROJECT
SUNSET HIGHWAY
CLATSOP COUNTY

Reviewed By - Chris Carman, P.E.
Designed By - Bruce A. Carmichael
Drafted By - Sandra Gish

TEMPORARY WATER MANAGEMENT

SHEET NO. GG

JOHNSON CREEK



PLAN

(1) *Inst. primary sand bag dam across the creek channel, upstream of the work area to be isolated. Inst. secondary sand bag, if needed, to stop water flow into work area.*

(2) *Inst. pump/filter system. Pump water seeping past upstream sand bag dam to an approved area upstream and filter water to control turbidity.*

(3) *Inst. water diversion pipe and size pipe, dams and pump based on "Maximum Predicted Discharge" and based on site conditions. Reposition pipe in work area, as necessary, as work progresses.*

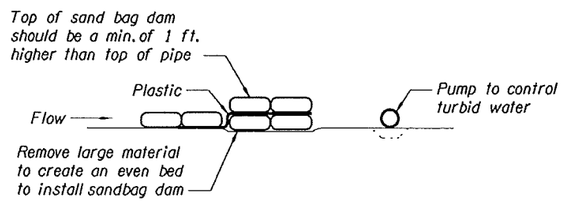
(4) *Inst. hydraulic energy dissapator at Temporary Water Management pipe outlet to prevent scour.*

(5) *Inst. pump/filter and sand bag dam, as necessary, to filter water if turbid.*

GENERAL NOTES:
The implementation of these Temporary Water Management plans and the construction, maintenance, replacement and upgrading of these facilities are the responsibility of the Contractor until all construction is completed and approved.

The Temporary Water Management facilities shown on this plan are the minimum requirements for anticipated site conditions. During the construction periods, these facilities shall be upgraded for unexpected storm events and to insure that sediment and sediment-laden water does not leave the site.

Fish salvage must be completed prior to the start of Temporary Water Management.



SECTION A-A

NOTE:
Width and depth of sand bag dam will vary depending on stream elevation contours and discharge rates.

Estimated discharge for temporary water management:

MAXIMUM PREDICTED DISCHARGE

IN WATER WORK PERIOD	DISCHARGE, CFS (gpm)
JULY 1 - SEPTEMBER 15	2.54 (1,140)

Discharges are not expected to exceed the maximum predicted discharge.

OHW El. 117.2

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OREGON DEPARTMENT OF TRANSPORTATION

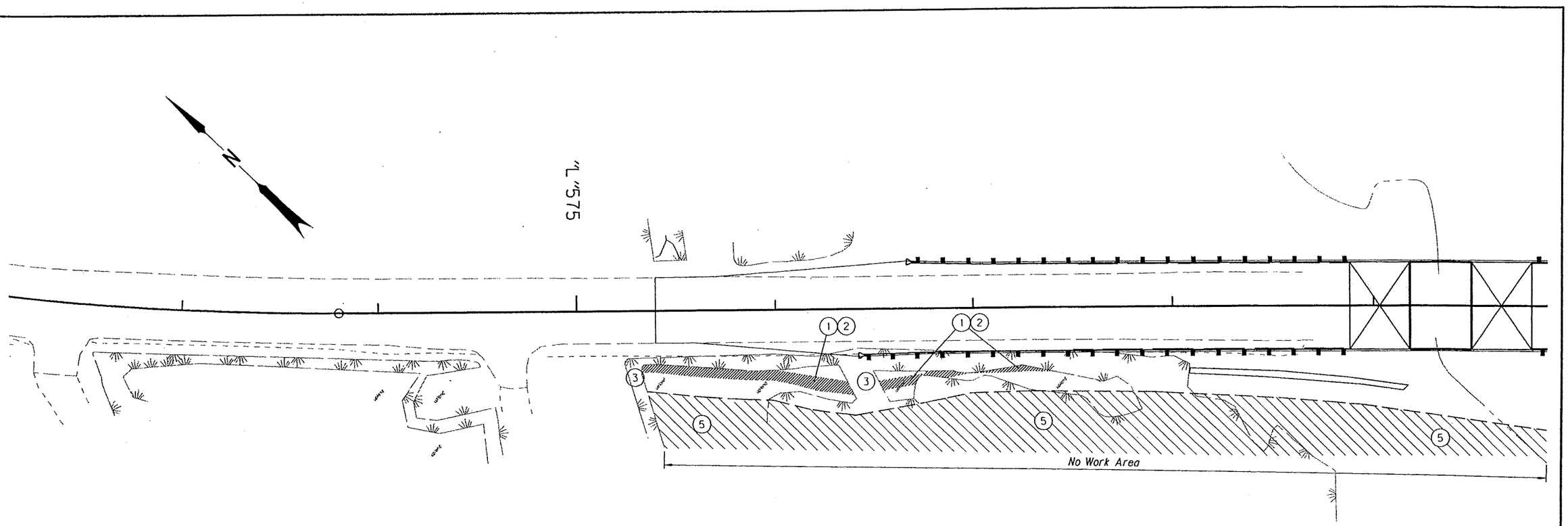
REGION 2 TECH CENTER

US26: VOLMER CREEK BRIDGE & JOHNSON CREEK BRIDGE PROJECT
SUNSET HIGHWAY
CLATSOP COUNTY

Reviewed By - Chris Carmon, P.E.
Designed By - Bruce A. Carmichael
Drafted By - Sandra Gish

TEMPORARY WATER MANAGEMENT

SHEET NO. GG-2



PLANT LIST

Botanical Name	Common Name	Size & Description	Total
Oenanthe sarmentosa	Water Parsley	Plugs	60
Carex obnupta	Slough Sedge	Plugs	100
Scirpis microcarpus	Small-fruited bulrush	Plugs	100

(1) Wetland Seeding Area
Provide and place Selected Topsoil to 3" depth above excavated ditch elevation. Review pre -finish grades with Engineers and Wetland Specialist prior to final grading.

(2) Plant the fallowing :
Oenanthe sarmentosa - 60
Carex onupta - 100
Scirpis microcarpus - 100

(3) Remove existing noxious vegetation including English Ivy (Hedra) & Armenian blackberry (Rabus armeniacus) from with in work limits.

(4) Seed all areas disturbed by construction.

(5) Alteration or disturbance of existing forested wetlands outside of project limits is prohibited. See Standard Specifications, 0290.41(b).

SCALE 1" = 50'

50 25 0 50

FEET

LEGEND:

- Edge of Existing Wetland
- Edge of New Roadside Ditch
- Selected Topsoil
- Planting
- No Work Area

REGISTERED
474
William R. Jablonski
OREGON
11/17/00
LANDSCAPE ARCHITECT
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OREGON DEPARTMENT OF TRANSPORTATION

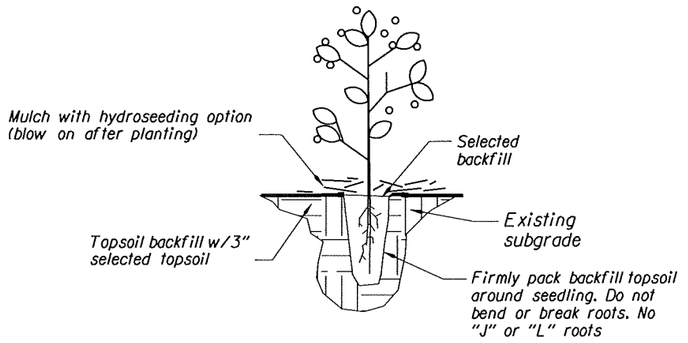
REGION 2 TECH CENTER

OR26: VOLMER CREEK BRIDGE & JOHNSON CREEK BRIDGE REPLACEMENT
SUNSET HIGHWAY
CLATSOP COUNTY

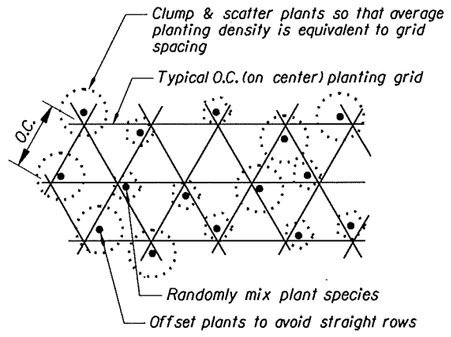
Design Team Leader - Carol Cartwright
Designed By - William R. Jablonski
Drafted By - Michael Skelton

ROADSIDE DEVELOPMENT PLAN

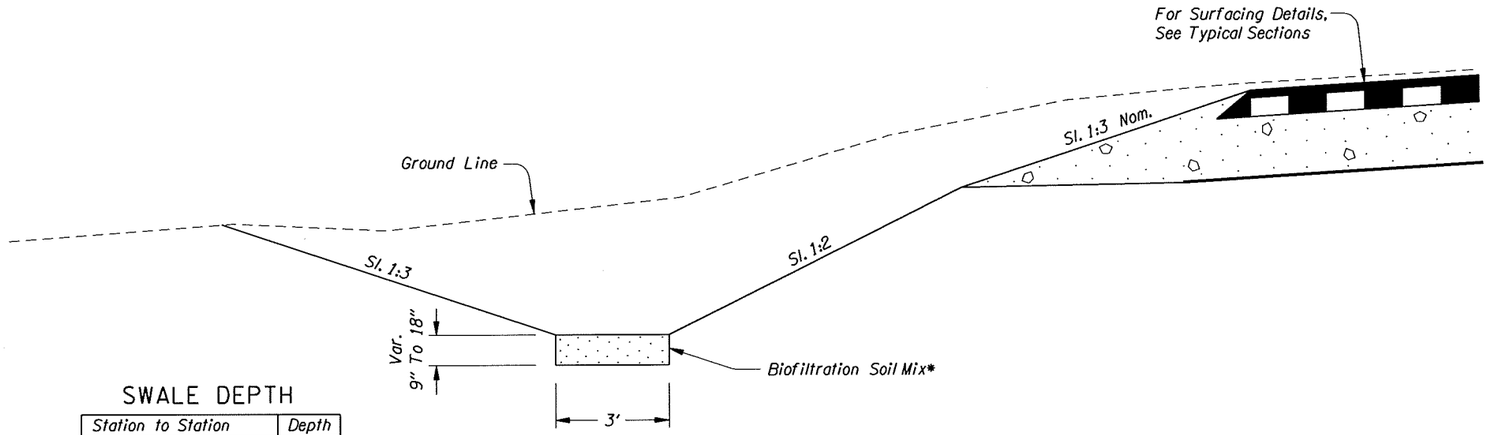
SHEET NO. GN-1



BARE ROOT PLANTING



RANDOM PLANTING PATTERN



SWALE DEPTH

Station to Station		Depth
522+30	523+70	18"
579+48	580+00	18"
580+00	580+94	9"
581+33	582+80	9"

Sta. "L" 522+30 To Sta. "L" 523+70, Lt.
"L" 579+48 To "L" 580+94, Lt.
"L" 581+32.5 To "L" 582+80, Lt.

*Seed biofiltration swale areas with water quality seed mix - 0.5 ac

WATER BIOFILTRATION SWALE

REGISTERED
474
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11/17/00
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REGION 2 TECH CENTER

OR26: VOLMER CREEK BRIDGE & JOHNSON CREEK BRIDGE REPLACEMENT
SUNSET HIGHWAY
CLATSOP COUNTY

Design Team Leader - Carol Cartwright
Designed By - William R. Jablonski
Drafted By - Michael Skelton

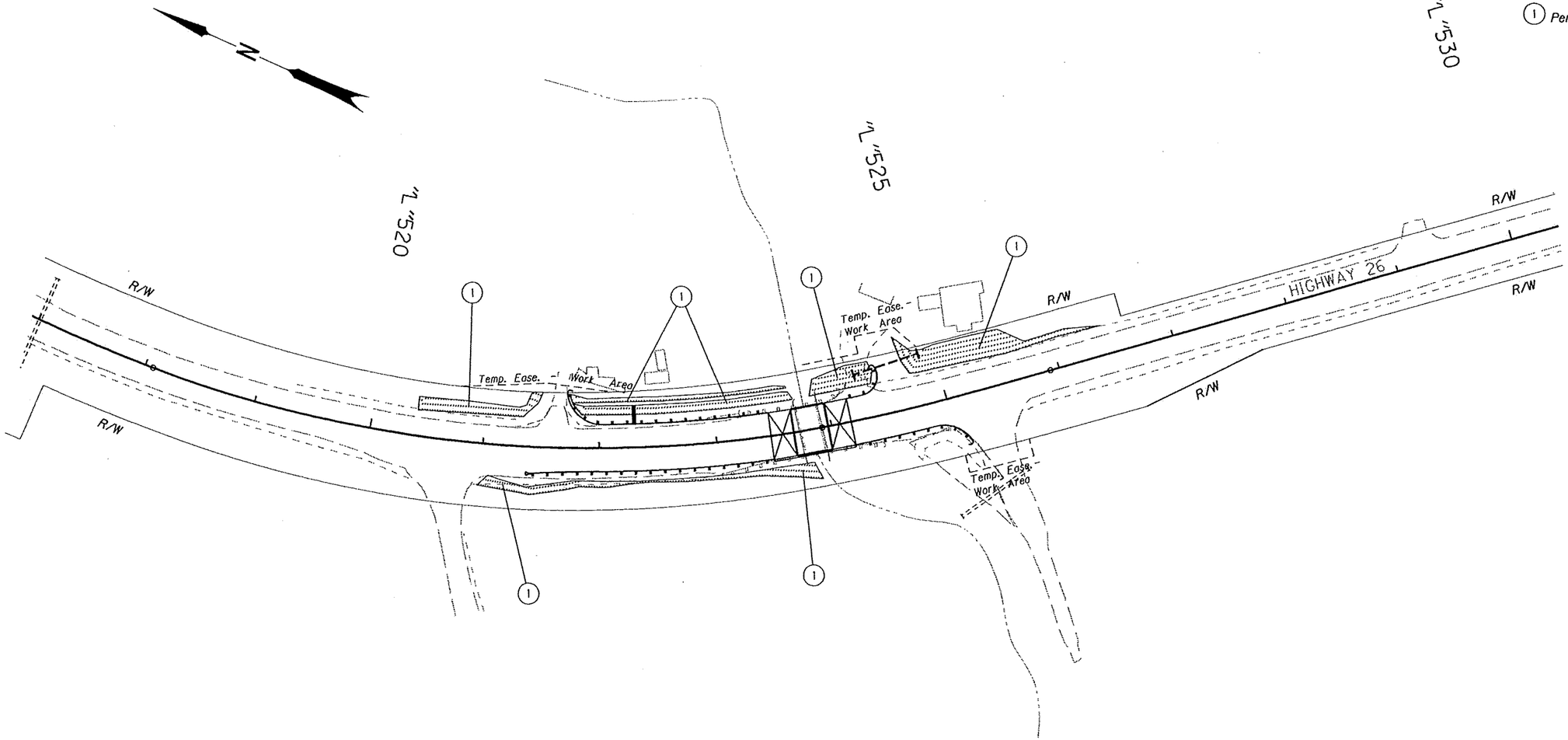
ROADSIDE DEVELOPMENT DETAILS

SHEET NO. GN-2

Sec. 14, T. 5 N., R. 10 W., W.M.

ADVANCE COPY
SUBJECT TO CHANGE

(1) Permanent Seed Mix, No. 1
Shown Thus:



REGISTERED PROFESSIONAL ENGINEER
56,13
OREGON
JUNE 14, 2007
ELISEO LEMUS-MAGANA
RENEWS: 12-31-2010

REVIEW COPY ONLY

OREGON DEPARTMENT OF TRANSPORTATION

REGION 2 TECH CENTER

US26: VOLMER CREEK BRIDGE & JOHNSON CREEK BRIDGE PROJECT
SUNSET HIGHWAY
CLATSOP COUNTY

Design Team Leader - Carol Cartwright
Designed By - Eliseo Lemus M.
Drafted By - Larry D. Garrison

ROADSIDE DEVELOPMENT PLAN

SHEET NO.
GN-3

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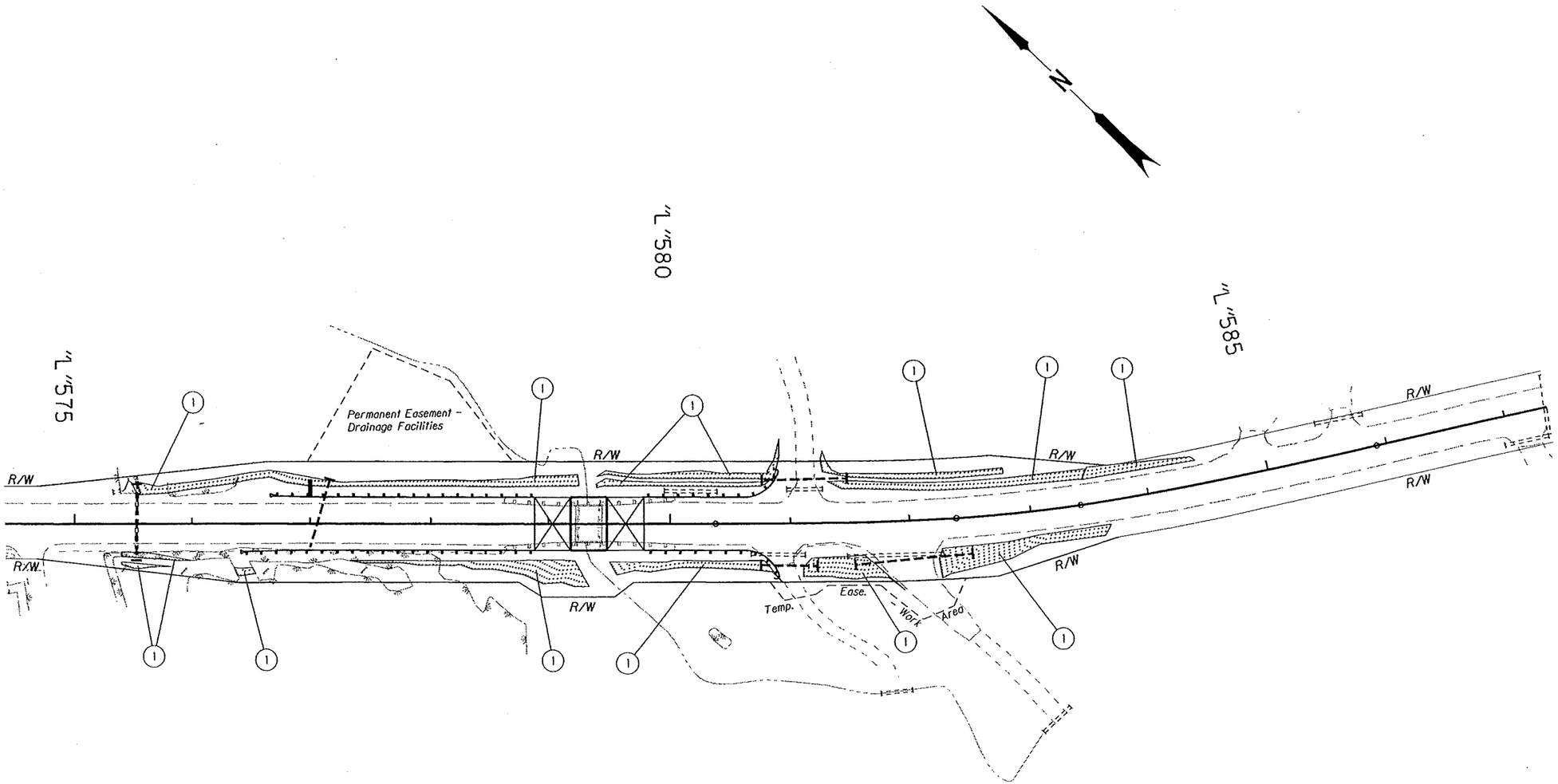
Sec. 14, T. 5 N., R. 10 W., W.M.

ADVANCE COPY
SUBJECT TO CHANGE

(1) Permanent Seed Mix, No. 1
Shown Thus:



OREGON DEPARTMENT OF TRANSPORTATION

REGION 2 TECH CENTER

REGISTERED PROFESSIONAL ENGINEER
56,13
OREGON
JUNE 14, 2007
ELISEO LEMUS-MAGANA
RENEWS: 12-31-2010

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US26: VOLMER CREEK BRIDGE & JOHNSON CREEK BRIDGE PROJECT
SUNSET HIGHWAY
CLATSOP COUNTY

Design Team Leader - Carol Cartwright
Designed By - Eliseo Lemus M.
Drafted By - Larry D. Garrison

ROADSIDE DEVELOPMENT PLAN

SHEET NO.
GN-4

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