

ENG. PROJECT NO. 3362-00

PORTION OF: \_\_\_\_\_

REFERENCE NUMBER: **CZ:A064:12-1**

PROJECT LOCATION (ADDRESS):  
North of Kalama River Road  
on Old Pacific Hwy S  
Kalama, Cowlitz County, WA

PROPOSED PROJECT:  
**KRESS LAKE ACCESS SITE RENOVATION**

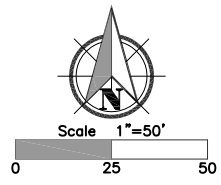
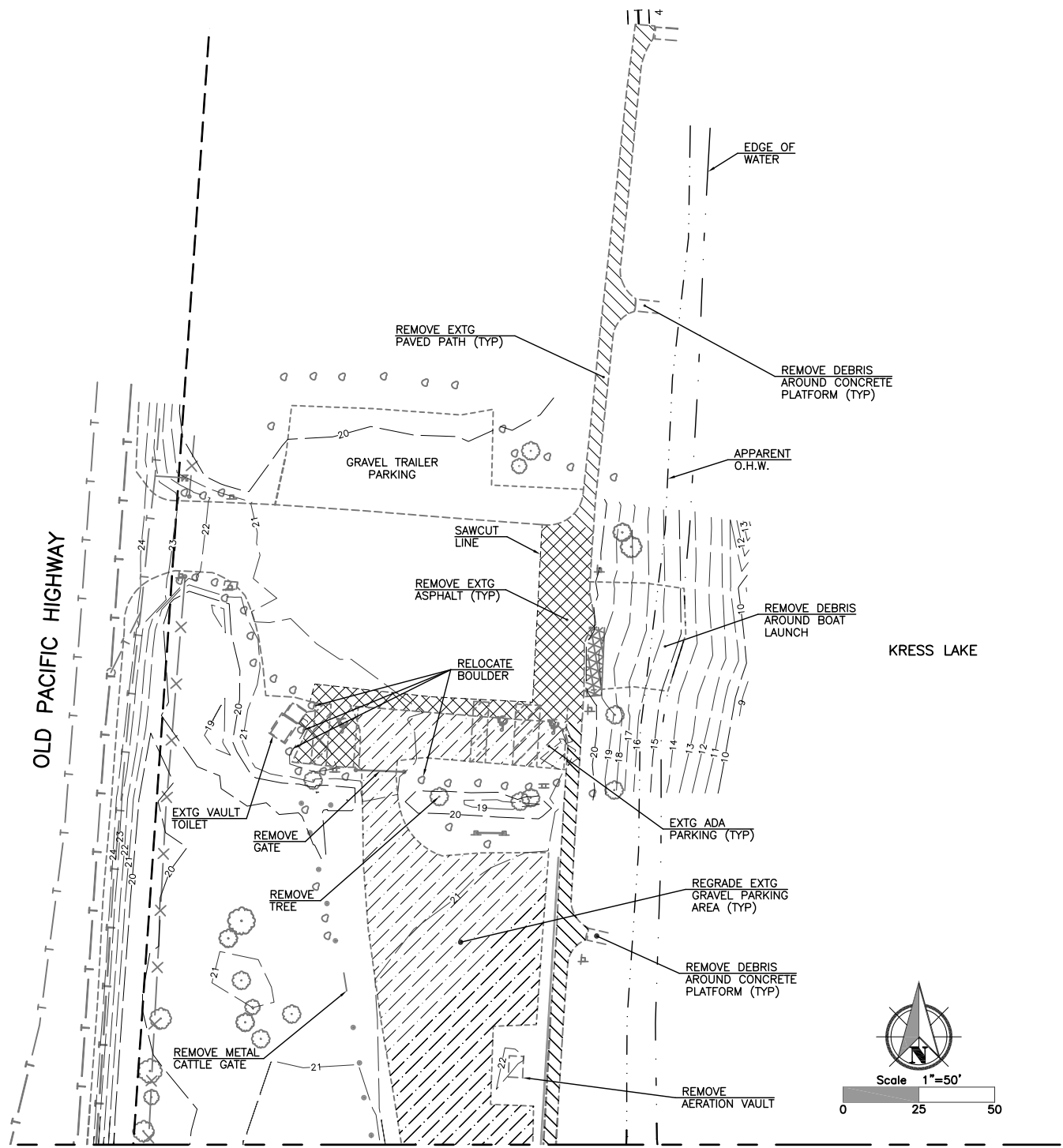
APPLICANT:  
WASHINGTON DEPT. of FISH & WILDLIFE  
600 CAPITOL WAY N.  
OLYMPIA, WA 98501-1091

IN: SEC 31, T7N, R1W, WM  
NEAR/AT: Kalama, WA  
COUNTY: Cowlitz County  
STATE: WA

ADJACENT PROPERTY OWNER:  
1. Terras Company, LLC (N)  
2. Port of Kalama (S)

LAT/LONG: LAT: 46.05, LONG: -122.85  
DATUM: V: NAVD 88 H: NAD 83/07  
SHEET 1 OF 16 DATE: 10-04-2012

OLD PACIFIC HIGHWAY



**EXISTING SITE AND DEMOLITION PLAN**

ENG. PROJECT NO. 3362-00 PORTION OF: \_\_\_\_\_

REFERENCE NUMBER: **CZ:A064:12-1**  
 APPLICANT:  
 WASHINGTON DEPT. of FISH & WILDLIFE  
 600 CAPITOL WAY N.  
 OLYMPIA, WA 98501-1091

PROJECT LOCATION (ADDRESS):  
 North of Kalama River Road  
 on Old Pacific Hwy S  
 Kalama, Cowlitz County, WA

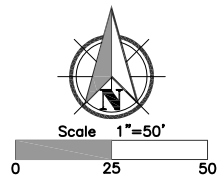
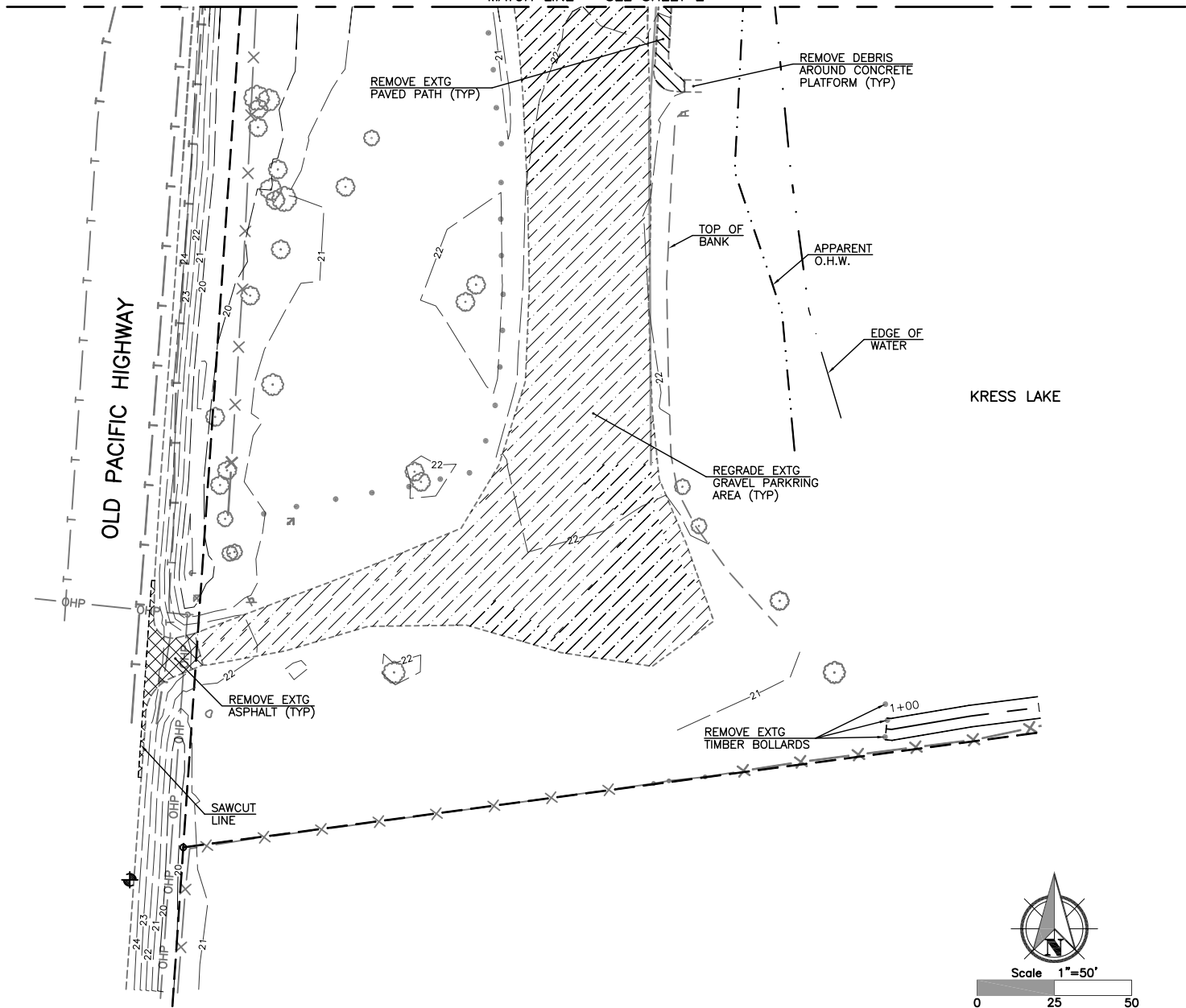
PROPOSED PROJECT:  
**KRESS LAKE ACCESS SITE RENOVATION**

ADJACENT PROPERTY OWNER:  
 1. Terras Company, LLC (N)  
 2. Port of Kalama (S)

LAT/LONG: LAT: 46.05, LONG: -122.85  
 DATUM: V: NAVD 88 H: NAD 83/07  
 SHEET 2 OF 16 DATE: 10-04-2012

IN: SEC 31, T7N, R1W, WM  
 NEAR/AT: Kalama, WA  
 COUNTY: Cowlitz County  
 STATE: WA

MATCH LINE - SEE SHEET 2



**EXISTING SITE AND DEMOLITION PLAN**

ENG. PROJECT NO. 3362-00

PORTION OF: \_\_\_\_\_

REFERENCE NUMBER: **CZ:A064:12-1**

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Kalama, Cowlitz County, WA

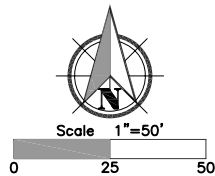
PROPOSED PROJECT:  
**KRESS LAKE ACCESS SITE RENOVATION**

APPLICANT:  
WASHINGTON DEPT. of FISH & WILDLIFE  
600 CAPITOL WAY N.  
OLYMPIA, WA 98501-1091

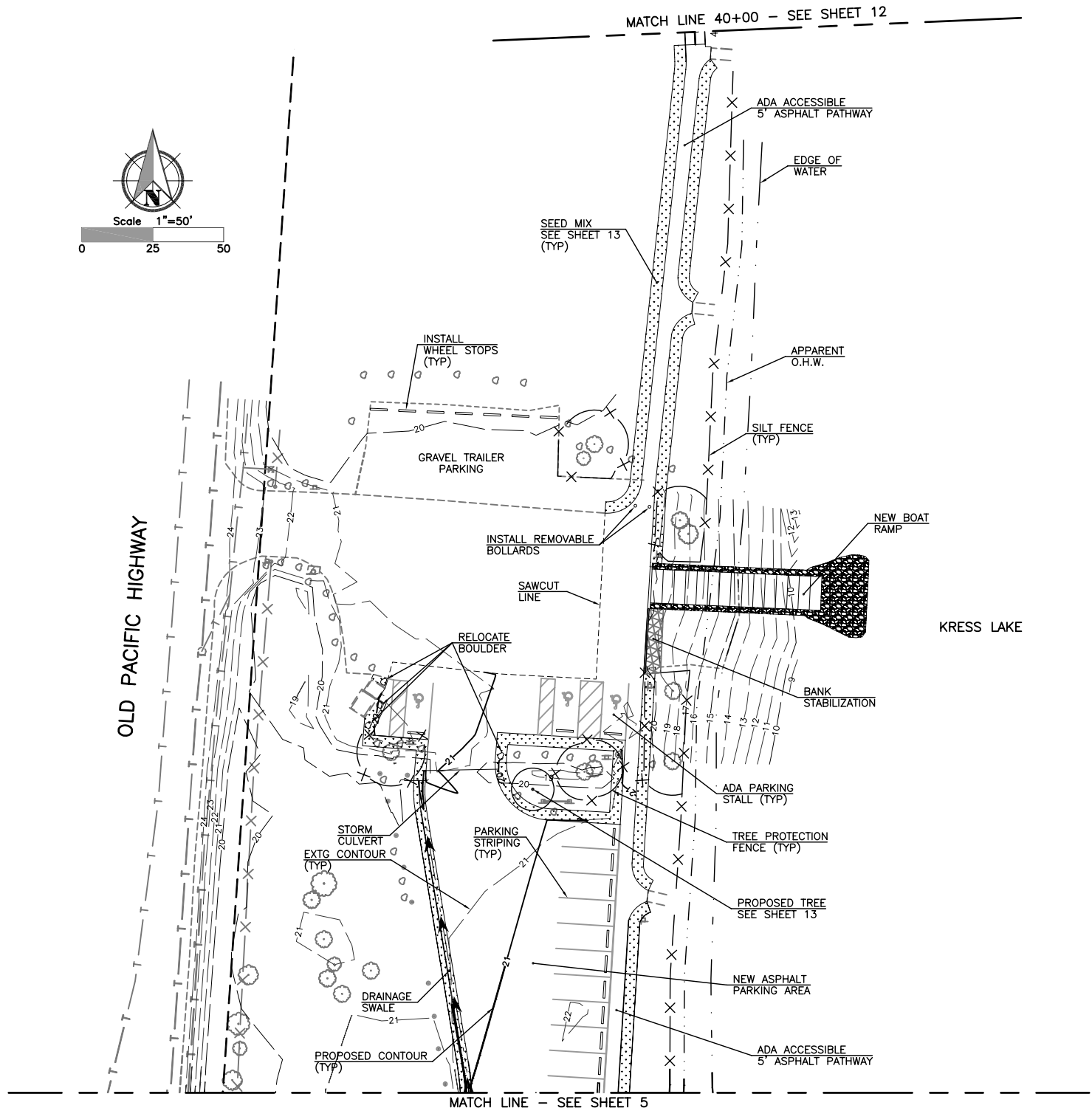
IN: SEC 31, T7N, R1W, WM  
NEAR/AT: Kalama, WA  
COUNTY: Cowlitz County  
STATE: WA

ADJACENT PROPERTY OWNER:  
1. Terras Company, LLC (N)  
2. Port of Kalama (S)

LAT/LONG: LAT: 46.05, LONG: -122.85  
DATUM: V: NAVD 88 H: NAD 83/07  
SHEET **3** OF 16 DATE: 10-04-2012



OLD PACIFIC HIGHWAY



**SITE PLAN**

ENG. PROJECT NO. 3362-00

PORTION OF: \_\_\_\_\_

REFERENCE NUMBER: **CZ:A064:12-1**  
 APPLICANT:  
 WASHINGTON DEPT. of FISH & WILDLIFE  
 600 CAPITOL WAY N.  
 OLYMPIA, WA 98501-1091

PROJECT LOCATION (ADDRESS):  
 North of Kalama River Road  
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 Kalama, Cowlitz County, WA

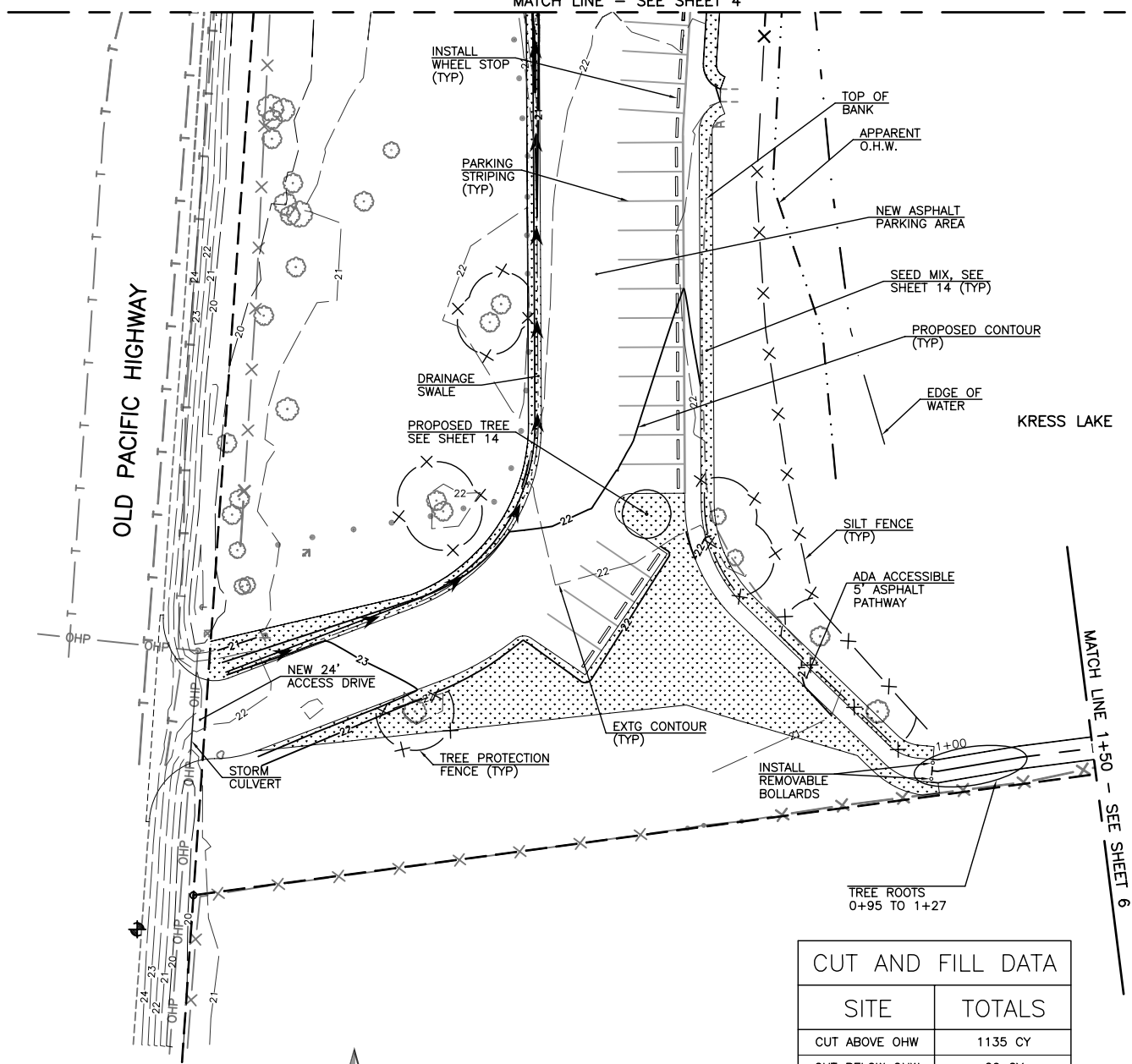
PROPOSED PROJECT:  
**KRESS LAKE ACCESS SITE RENOVATION**

ADJACENT PROPERTY OWNER:  
 1. Terras Company, LLC (N)  
 2. Port of Kalama (S)

LAT/LONG: LAT: 46.05, LONG: -122.85  
 DATUM: V: NAVD 88 H: NAD 83/07  
 SHEET 4 OF 16 DATE: 10-04-2012

IN: SEC 31, T7N, R1W, WM  
 NEAR/AT: Kalama, WA  
 COUNTY: Cowlitz County  
 STATE: WA

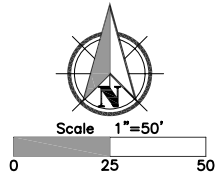
MATCH LINE - SEE SHEET 4



KRESS LAKE

MATCH LINE 1+50 - SEE SHEET 6

CUT AND FILL DATA	
SITE	TOTALS
CUT ABOVE OHW	1135 CY
CUT BELOW OHW	20 CY
FILL ABOVE OHW	1359 CY
FILL BELOW OHW	106 CY
NET BELOW OHW	86 CY FILL
NET ABOVE OHW	224 CY FILL



**SITE PLAN**

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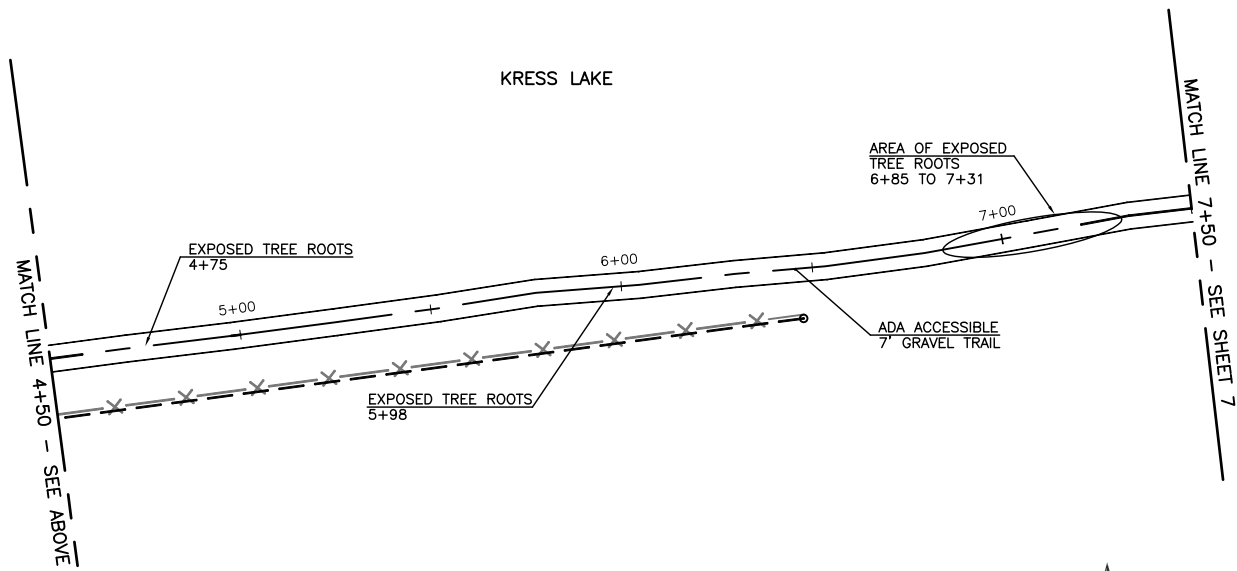
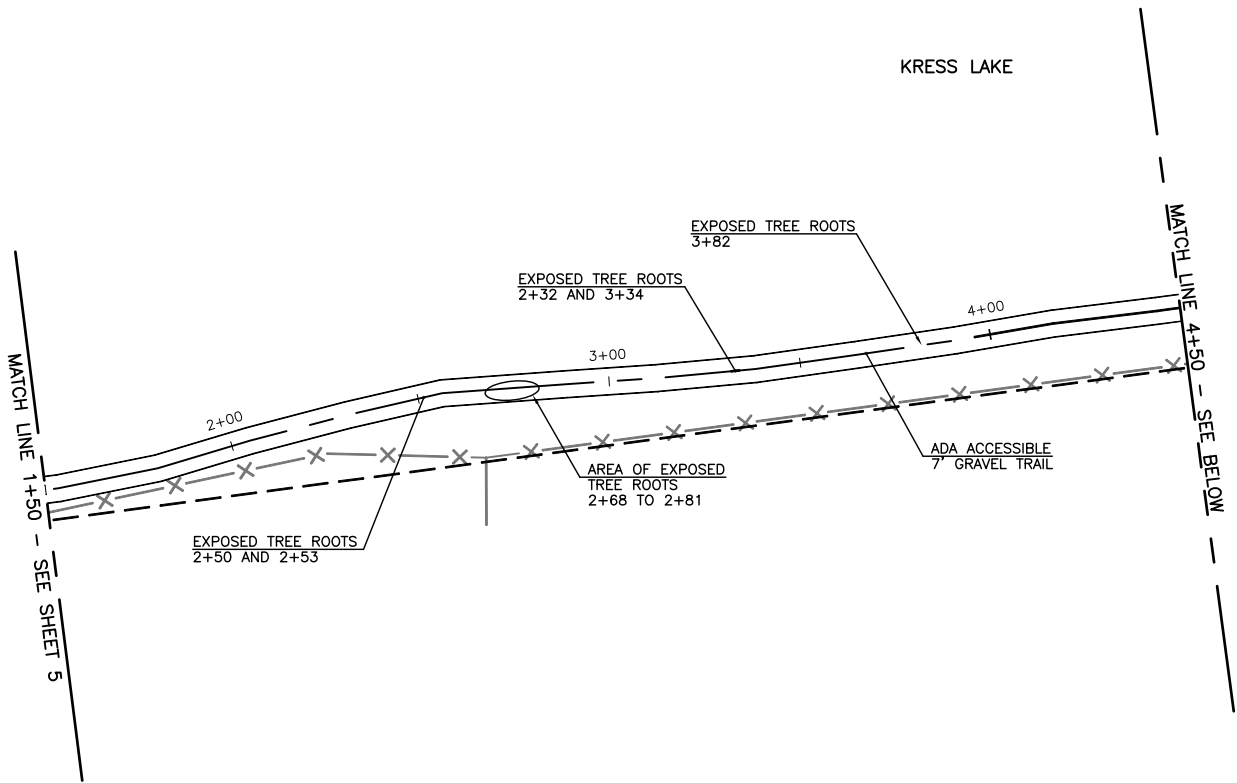
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 OLYMPIA, WA 98501-1091

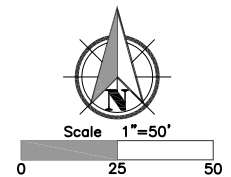
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LAT/LONG: LAT: 46.05, LONG: -122.85  
 DATUM: V: NAVD 88 H: NAD 83/07  
 SHEET 5 OF 16 DATE: 10-04-2012

IN: SEC 31, T7N, R1W, WM  
 NEAR/AT: Kalama, WA  
 COUNTY: Cowlitz County  
 STATE: WA



**GRAVEL TRAIL PLAN**



ENG. PROJECT NO. 3362-00

PORTION OF: \_\_\_\_\_

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 North of Kalama River Road  
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 Kalama, Cowlitz County, WA

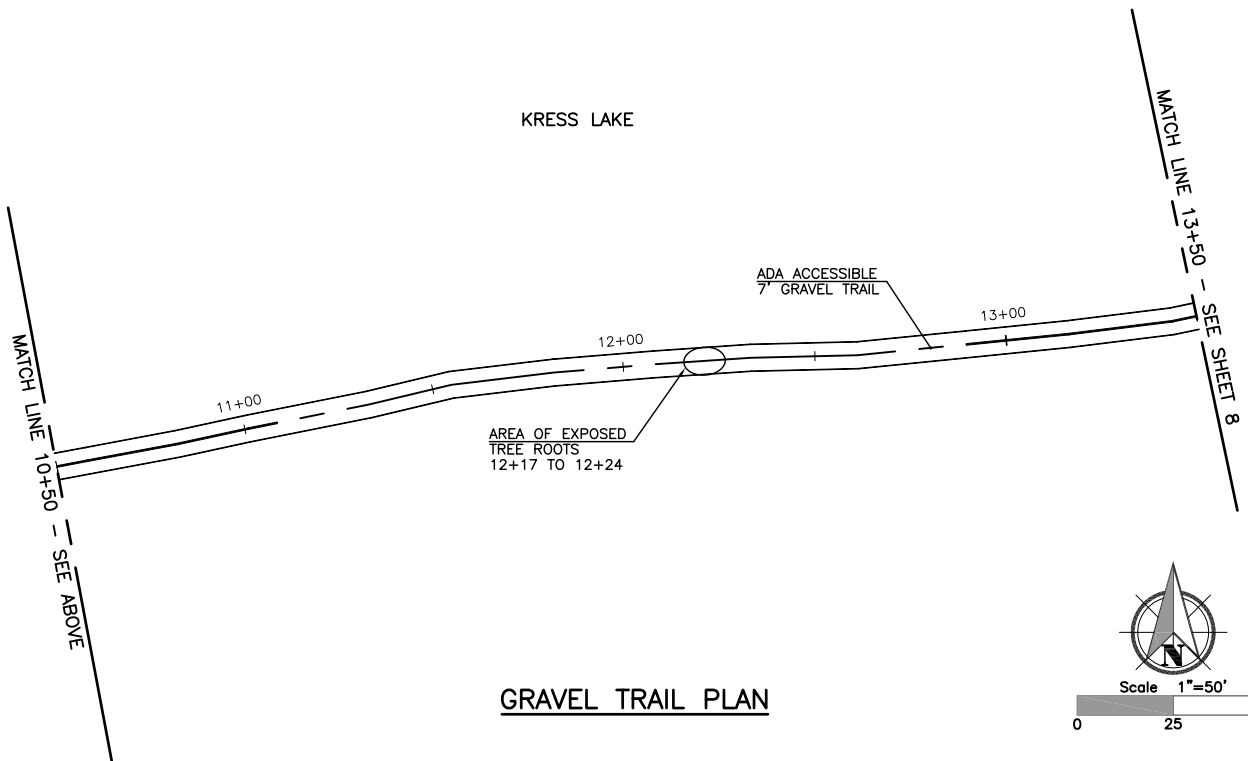
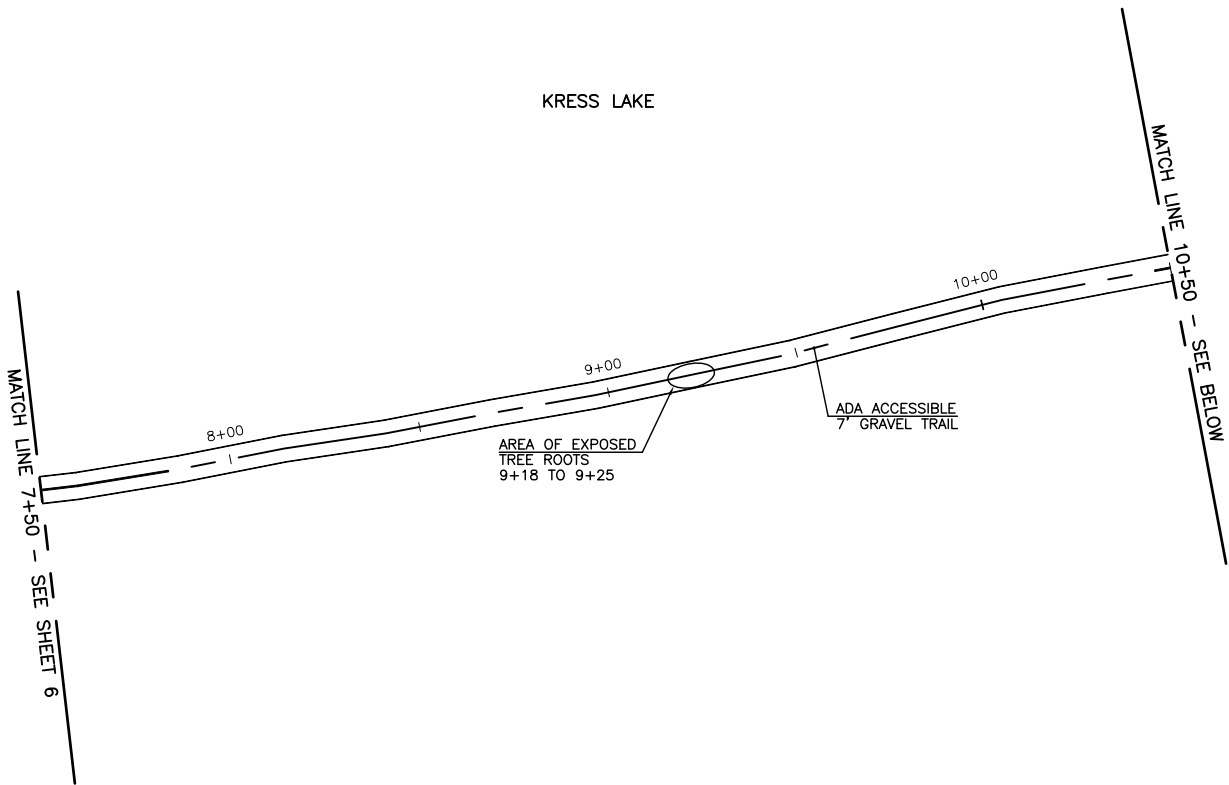
PROPOSED PROJECT:  
**KRESS LAKE ACCESS SITE RENOVATION**

APPLICANT:  
 WASHINGTON DEPT. of FISH & WILDLIFE  
 600 CAPITOL WAY N.  
 OLYMPIA, WA 98501-1091

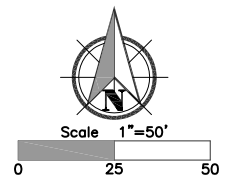
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 SHEET 6 OF 16 DATE: 10-04-2012

IN: SEC 31, T7N, R1W, WM  
 NEAR/AT: Kalama, WA  
 COUNTY: Cowlitz County  
 STATE: WA



**GRAVEL TRAIL PLAN**



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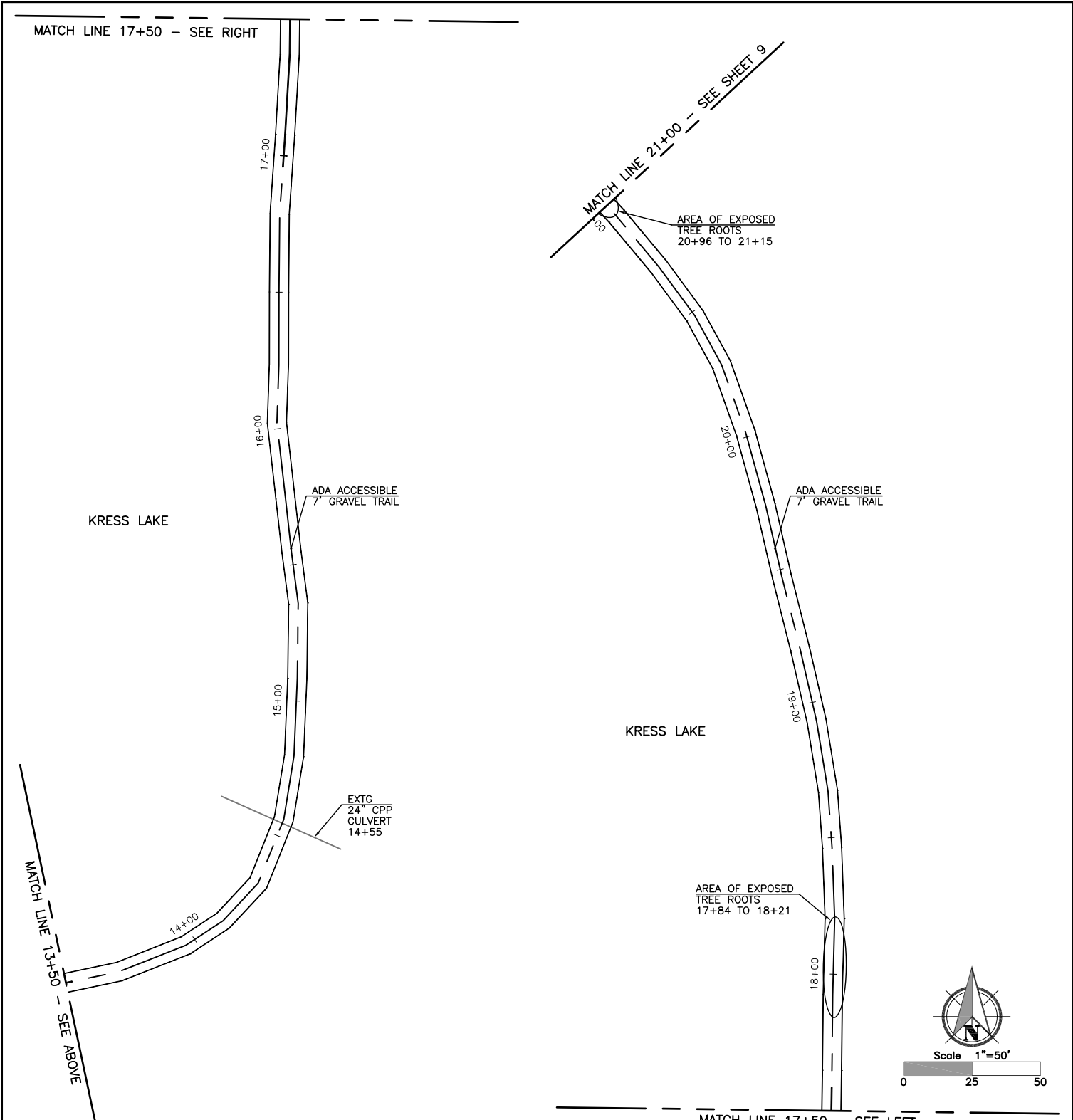
PROJECT LOCATION (ADDRESS):  
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 Kalama, Cowlitz County, WA

PROPOSED PROJECT:  
 KRESS LAKE ACCESS SITE RENOVATION

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 DATUM: V: NAVD 88 H: NAD 83/07  
 SHEET 7 OF 16 DATE: 10-04-2012

IN: SEC 31, T7N, R1W, WM  
 NEAR/AT: Kalama, WA  
 COUNTY: Cowlitz County  
 STATE: WA



**GRAVEL TRAIL PLAN**

ENG. PROJECT NO. 3362-00

MATCH LINE 17+50 - SEE LEFT

PORTION OF: \_\_\_\_\_

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PROJECT LOCATION (ADDRESS):  
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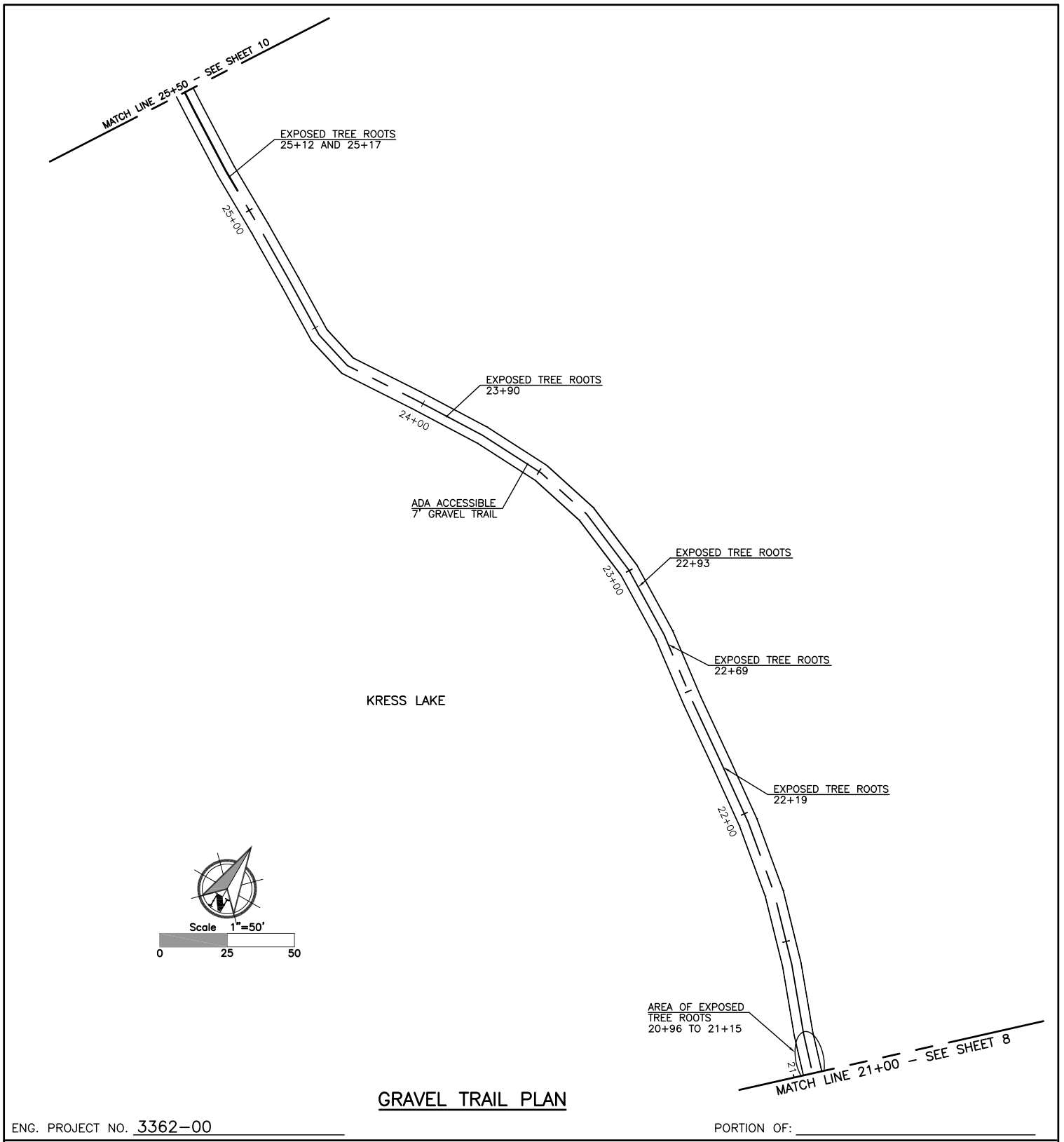
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ADJACENT PROPERTY OWNER:  
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LAT/LONG: LAT: 46.05, LONG: -122.85  
 DATUM: V: NAVD 88 H: NAD 83/07  
 SHEET 8 OF 16 DATE: 10-04-2012

IN: SEC 31, T7N, R1W, WM  
 NEAR/AT: Kalama, WA  
 COUNTY: Cowlitz County  
 STATE: WA

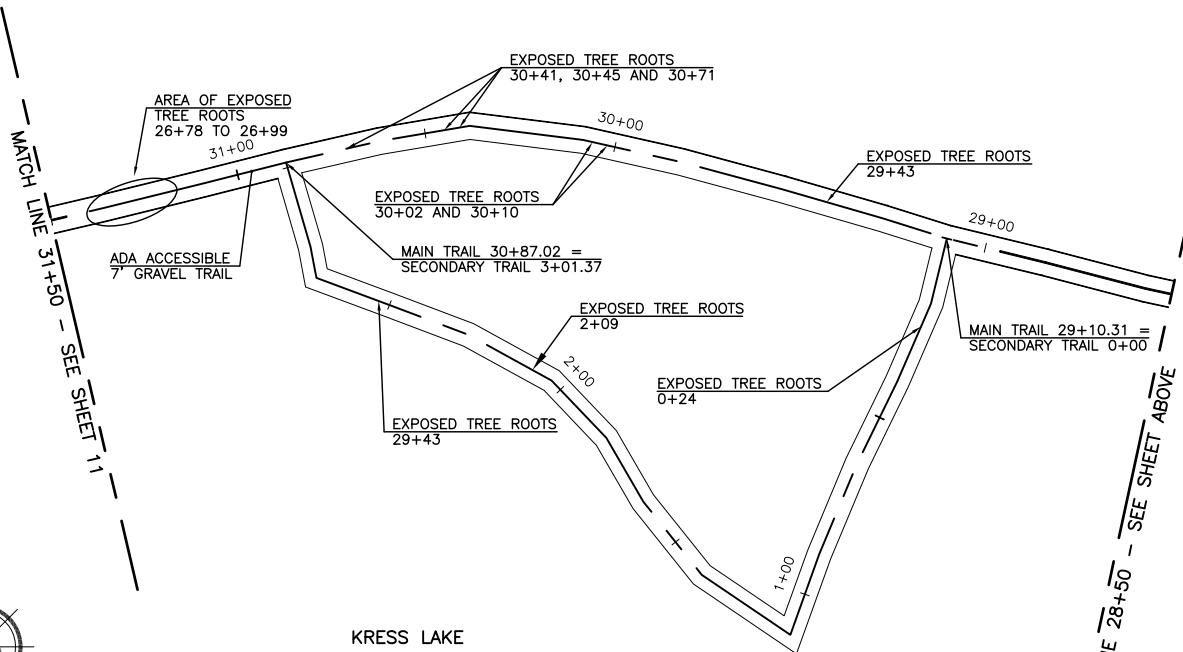
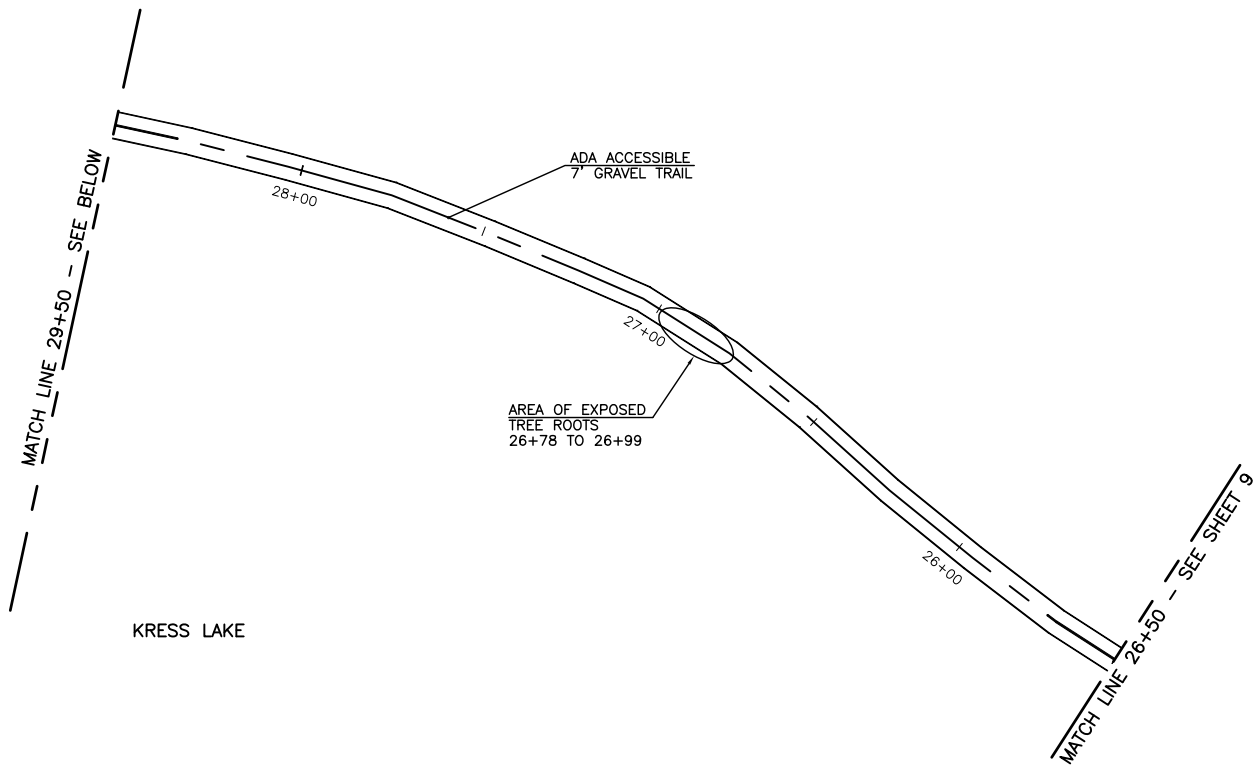




**GRAVEL TRAIL PLAN**

ENG. PROJECT NO. 3362-00 PORTION OF: \_\_\_\_\_

<p>REFERENCE NUMBER: <b>CZ:A064:12-1</b></p> <p>APPLICANT:          WASHINGTON DEPT. of FISH &amp; WILDLIFE          600 CAPITOL WAY N.          OLYMPIA, WA 98501-1091</p> <p>ADJACENT PROPERTY OWNER:          1. Terras Company, LLC (N)          2. Port of Kalama (S)</p>	<p>PROJECT LOCATION (ADDRESS):          North of Kalama River Road          on Old Pacific Hwy S          Kalama, Cowlitz County, WA</p> <p>LAT/LONG: LAT: 46.05, LONG: -122.85          DATUM: V: NAVD 88 H: NAD 83/07          SHEET 9 OF 16 DATE: 10-04-2012</p>	<p>PROPOSED PROJECT:          KRESS LAKE ACCESS SITE RENOVATION</p> <p>IN: SEC 31, T7N, R1W, WM          NEAR/AT: Kalama, WA          COUNTY: Cowlitz County          STATE: WA</p>
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Scale 1"=50'  
0 25 50

**GRAVEL TRAIL PLAN**

ENG. PROJECT NO. 3362-00

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 WASHINGTON DEPT. of FISH & WILDLIFE  
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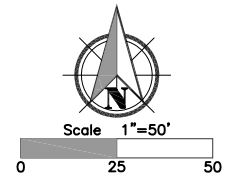
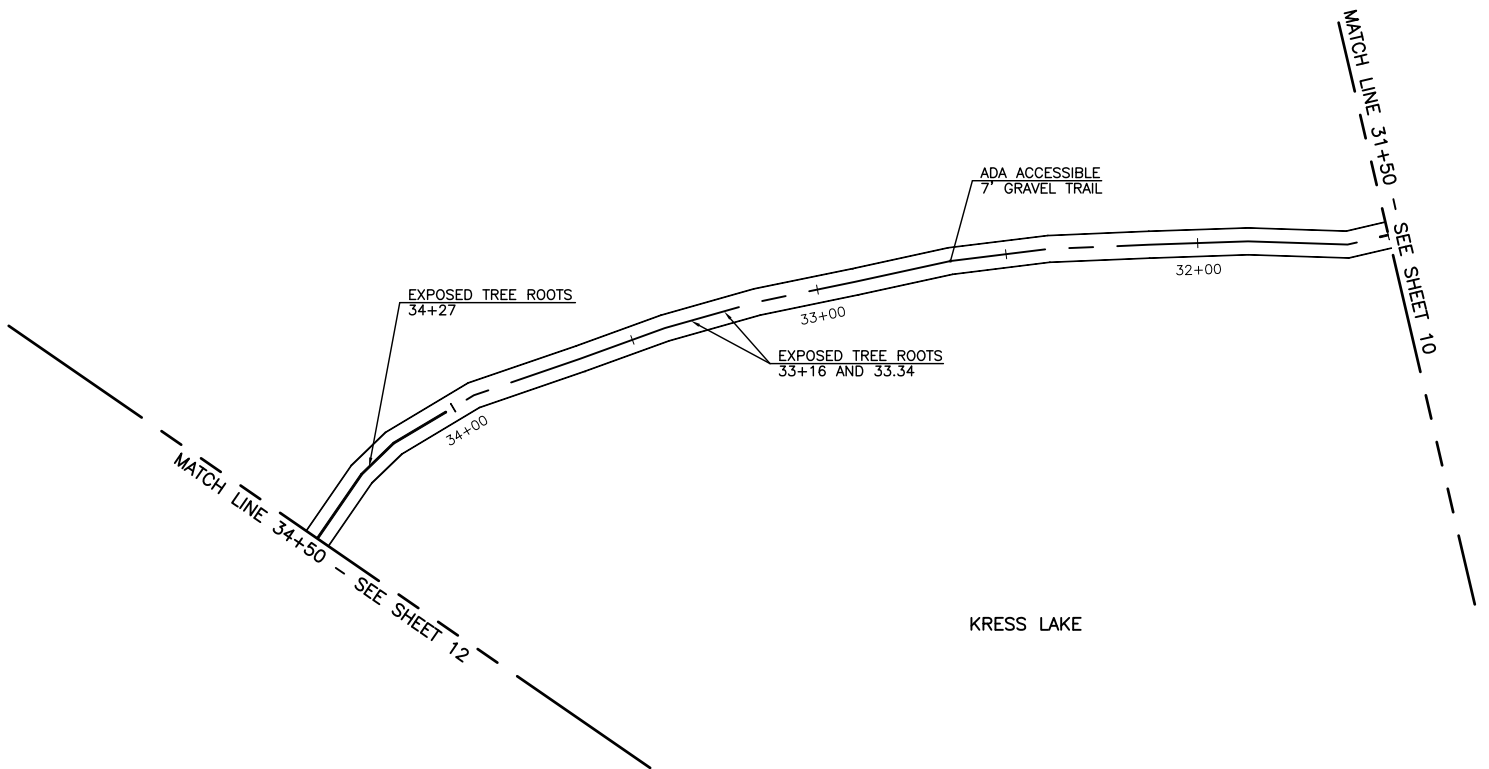
PROJECT LOCATION (ADDRESS):  
 North of Kalama River Road  
 on Old Pacific Hwy S  
 Kalama, Cowlitz County, WA

PROPOSED PROJECT:  
 KRESS LAKE ACCESS SITE RENOVATION

ADJACENT PROPERTY OWNER:  
 1. Terras Company, LLC (N)  
 2. Port of Kalama (S)

LAT/LONG: LAT: 46.05, LONG: -122.85  
 DATUM: V: NAVD 88 H: NAD 83/07  
 SHEET 10 OF 16 DATE: 10-04-2012

IN: SEC 31, T7N, R1W, WM  
 NEAR/AT: Kalama, WA  
 COUNTY: Cowlitz County  
 STATE: WA



**GRAVEL TRAIL PLAN**

ENG. PROJECT NO. 3362-00

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 600 CAPITOL WAY N.  
 OLYMPIA, WA 98501-1091

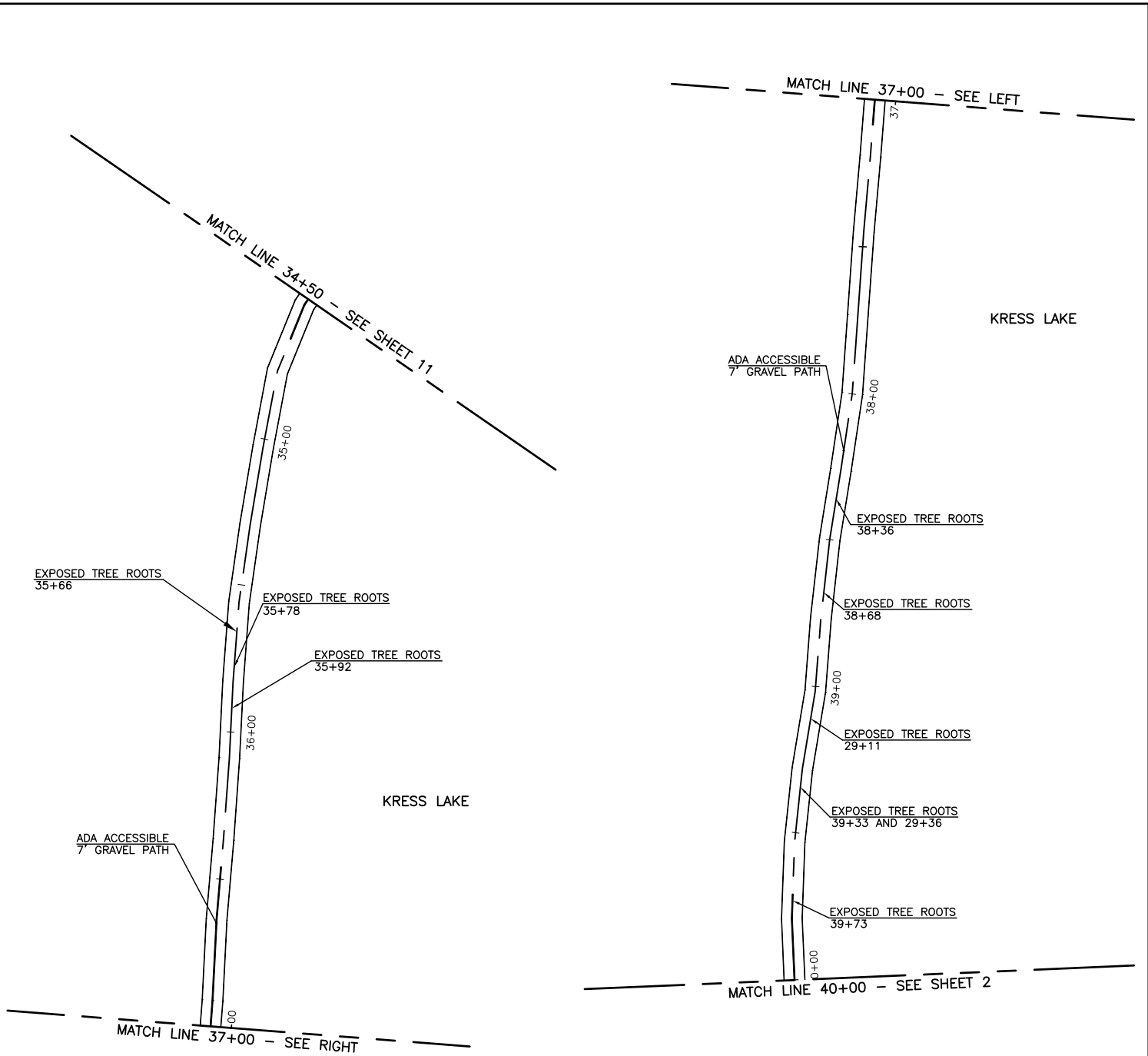
PROJECT LOCATION (ADDRESS):  
 North of Kalama River Road  
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 Kalama, Cowlitz County, WA

PROPOSED PROJECT:  
 KRESS LAKE ACCESS SITE RENOVATION

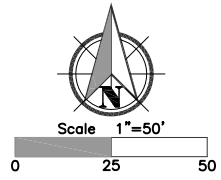
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 1. Terras Company, LLC (N)  
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LAT/LONG: LAT: 46.05, LONG: -122.85  
 DATUM: V: NAVD 88 H: NAD 83/07  
 SHEET 11 OF 16 DATE: 10-04-2012

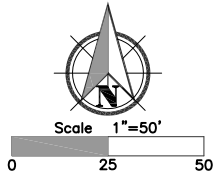
IN: SEC 31, T7N, R1W, WM  
 NEAR/AT: Kalama, WA  
 COUNTY: Cowlitz County  
 STATE: WA



**GRAVEL TRAIL PLAN**



ENG. PROJECT NO. <u>3362-00</u>		PORTION OF: _____	
REFERENCE NUMBER: <b>CZ:A064:12-1</b>	PROJECT LOCATION (ADDRESS): North of Kalama River Road on Old Pacific Hwy S Kalama, Cowlitz County, WA	PROPOSED PROJECT: <b>KRESS LAKE ACCESS SITE RENOVATION</b>	
APPLICANT: WASHINGTON DEPT. of FISH & WILDLIFE 600 CAPITOL WAY N. OLYMPIA, WA 98501-1091		IN: SEC 31, T7N, R1W, WM NEAR/AT: Kalama, WA COUNTY: Cowlitz County STATE: WA	
ADJACENT PROPERTY OWNER: 1. Terras Company, LLC (N) 2. Port of Kalama (S)	LAT/LONG: LAT: 46.05, LONG: -122.85 DATUM: V: NAVD 88 H: NAD 83/07 SHEET 12 OF 16 DATE: 10-04-2012		



OLD PACIFIC HIGHWAY

REMOVE DEBRIS AND SEED EXPOSED AREAS W/ NATIVE SEED MIX (TYP)

EDGE OF WATER

GRAVEL TRAILER PARKING

APPARENT O.H.W.

KRESS LAKE

PROPOSED TREE QUERCUS PALUSTRIS PIN OAK

REMOVE DEBRIS AND SEED EXPOSED AREAS W/ NATIVE SEED MIX (TYP)

MATCH LINE - SEE SHEET 14

NATIVE SEED MIX:  
 40% BLUE WILDRIE  
 40% CALIFORNIA BROME  
 15% NATIVE RED FESCUE  
 5% TUFTED HAIRGRASS

**PLANTING PLAN**

ENG. PROJECT NO. 3362-00

PORTION OF: \_\_\_\_\_

REFERENCE NUMBER: **CZ:A064:12-1**

PROJECT LOCATION (ADDRESS):  
 North of Kalama River Road  
 on Old Pacific Hwy S  
 Kalama, Cowlitz County, WA

PROPOSED PROJECT:  
**KRESS LAKE ACCESS SITE RENOVATION**

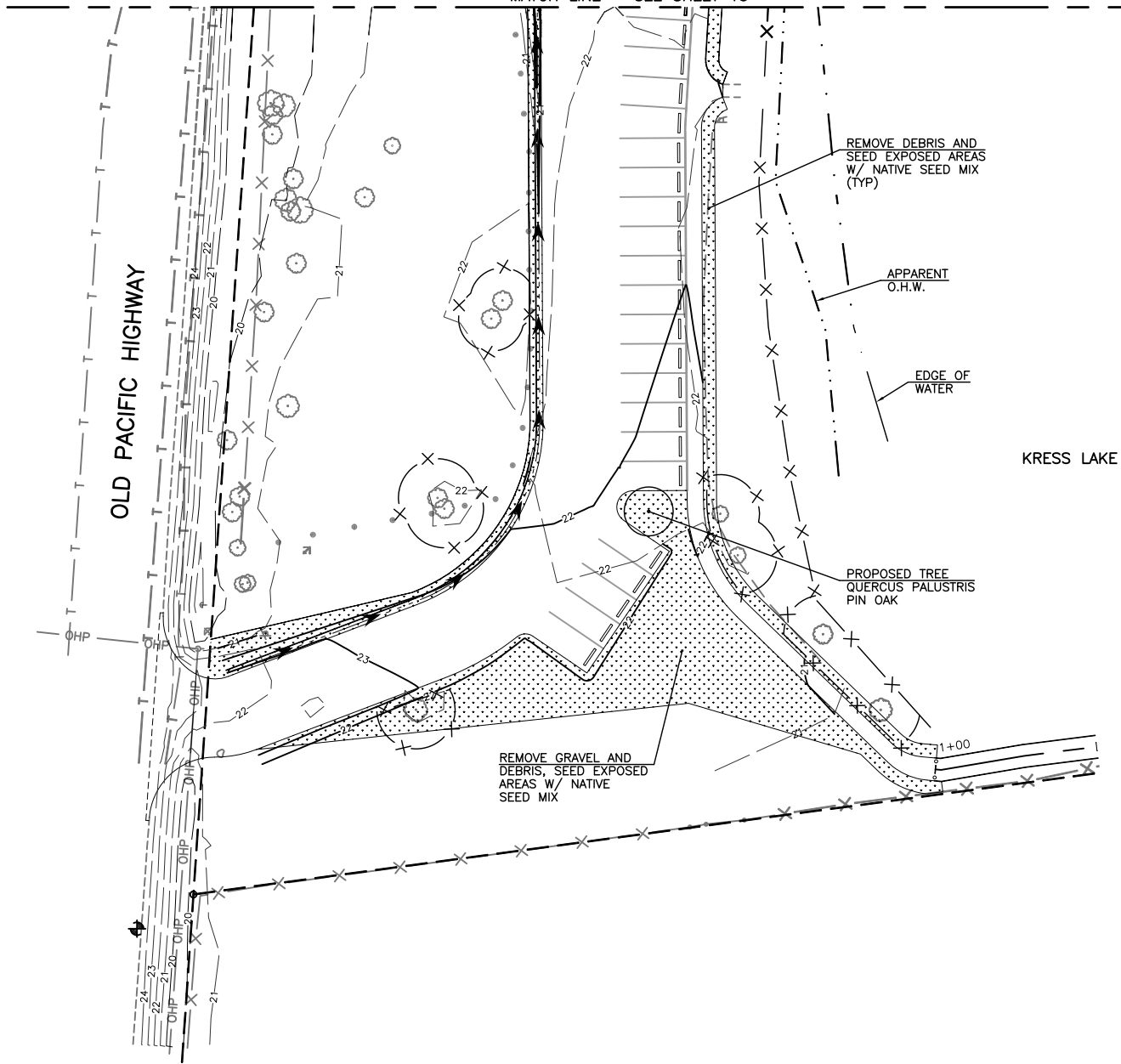
APPLICANT:  
 WASHINGTON DEPT. of FISH & WILDLIFE  
 600 CAPITOL WAY N.  
 OLYMPIA, WA 98501-1091

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LAT/LONG: LAT: 46.05, LONG: -122.85  
 DATUM: V: NAVD 88 H: NAD 83/07  
 SHEET 13 OF 16 DATE: 10-04-2012

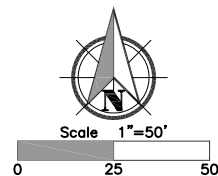
IN: SEC 31, T7N, R1W, WM  
 NEAR/AT: Kalama, WA  
 COUNTY: Cowlitz County  
 STATE: WA

MATCH LINE - SEE SHEET 13



NATIVE SEED MIX:  
 40% BLUE WILD RYE  
 40% CALIFORNIA BROME  
 15% NATIVE RED FESCUE  
 5% TUFTED HAIRGRASS

**PLANTING PLAN**



ENG. PROJECT NO. 3362-00

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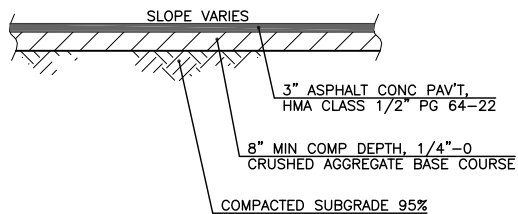
PROJECT LOCATION (ADDRESS):  
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PROPOSED PROJECT:  
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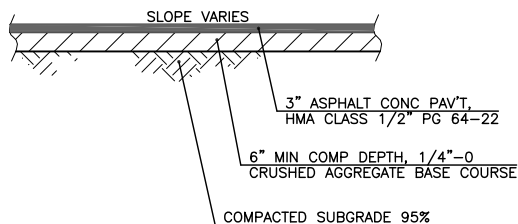
LAT/LONG: LAT: 46.05, LONG: -122.85  
 DATUM: V: NAVD 88 H: NAD 83/07  
 SHEET 14 OF 16 DATE: 10-04-2012

IN: SEC 31, T7N, R1W, WM  
 NEAR/AT: Kalama, WA  
 COUNTY: Cowlitz County  
 STATE: WA



**ENTRANCE AREA & DRIVE AISLES TYPICAL SECTION**

NTS



**PASSENGER CAR PARKING ONLY TYPICAL SECTION**

NTS

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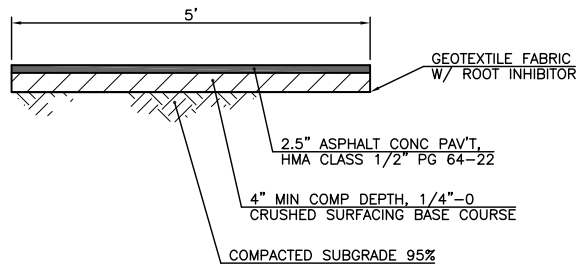
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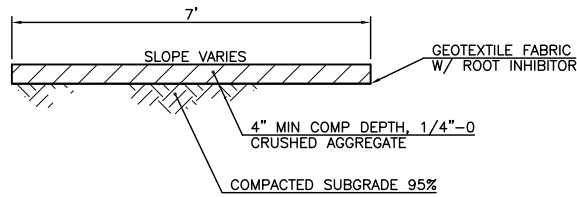
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LAT/LONG: LAT: 46.05, LONG: -122.85  
 DATUM: V: NAVD 88 H: NAD 83/07  
 SHEET 15 OF 16 DATE: 10-04-2012

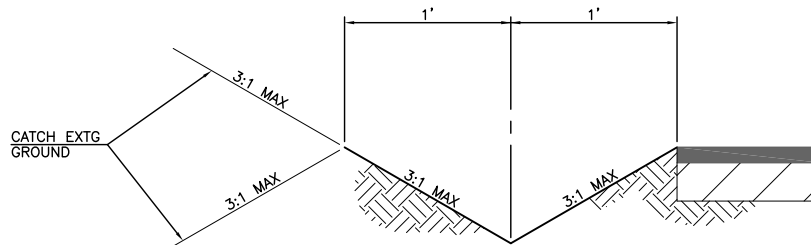
IN: SEC 31, T7N, R1W, WM  
 NEAR/AT: Kalama, WA  
 COUNTY: Cowlitz County  
 STATE: WA



**ASPHALT PATHWAY TYPICAL SECTION**  
NTS



**ADA ACCESSIBLE GRAVEL TRAIL TYPICAL SECTION**  
NTS



**DRAINAGE SWALE TYPICAL SECTION**  
NTS

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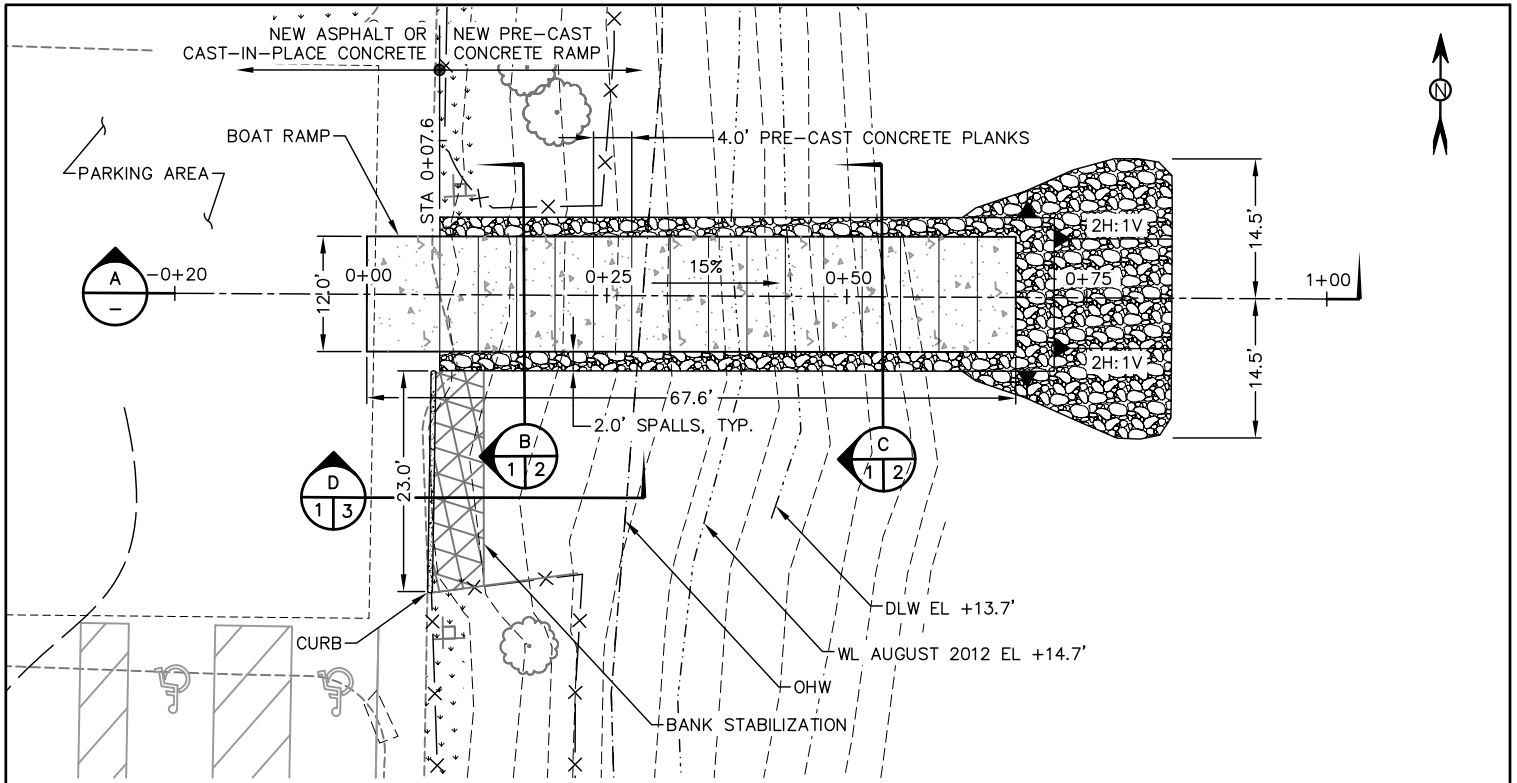
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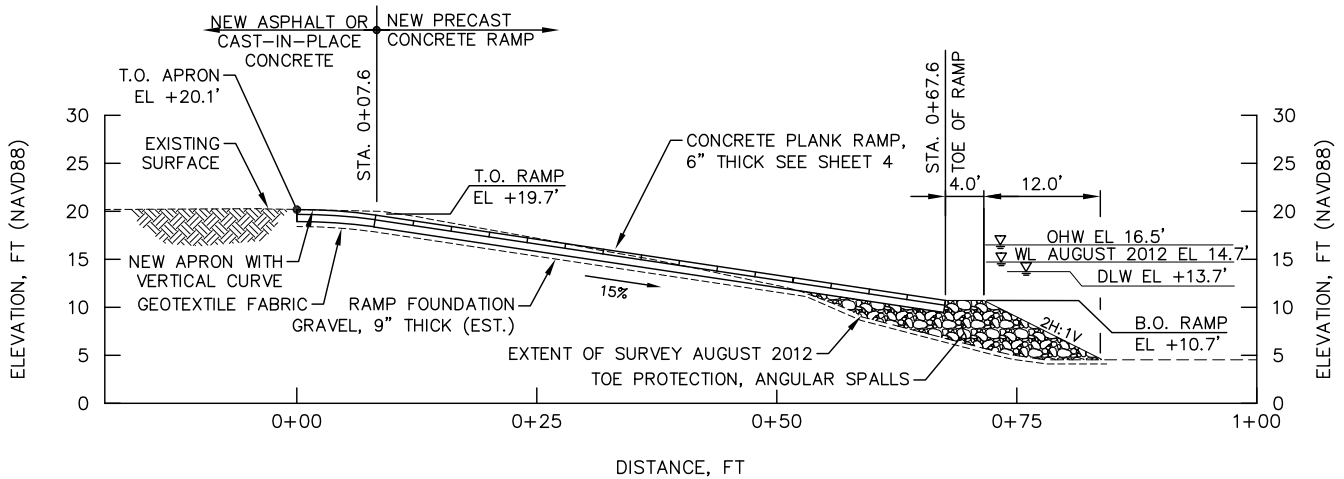
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 SHEET 16 OF 16 DATE: 10-04-2012

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 COUNTY: Cowlitz County  
 STATE: WA





**SITE PLAN**  
SCALE: 1" = 20'



**SECTION**  
SCALE: 1" = 20'

**EARTHWORK NOTES:**

1. FOUNDATION GRAVEL TO BE CLEAN CRUSHED GRAVEL.
2. SPALLS TO BE 3" TO 8" ANGULAR STONE.
3. FILL INTERSTITIAL SPACE OF SPALLS WITH HABITAT MIX GRAVEL ALONG 2' WIDE EDGE TREATMENT.

**DRAFT**

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 600 CAPITOL WAY N.  
 OLYMPIA, WA 98501-1091

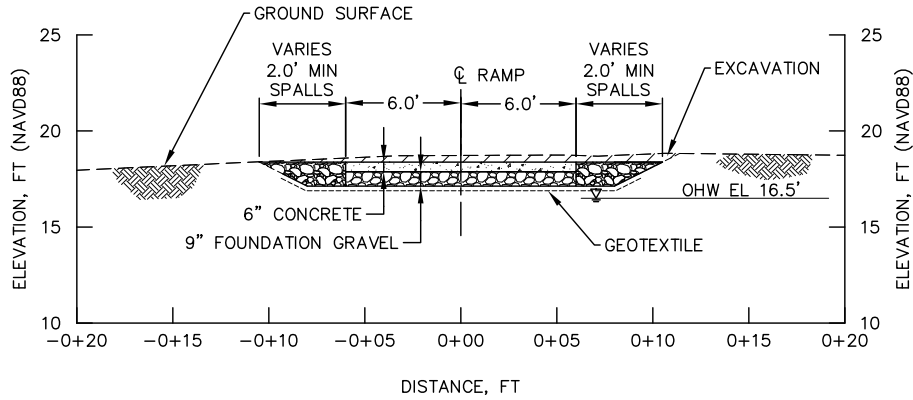
PROJECT LOCATION (ADDRESS):  
 North of Kalama River Road  
 on Old Pacific Hwy S  
 Kalama, Cowlitz County, WA

PROPOSED PROJECT:

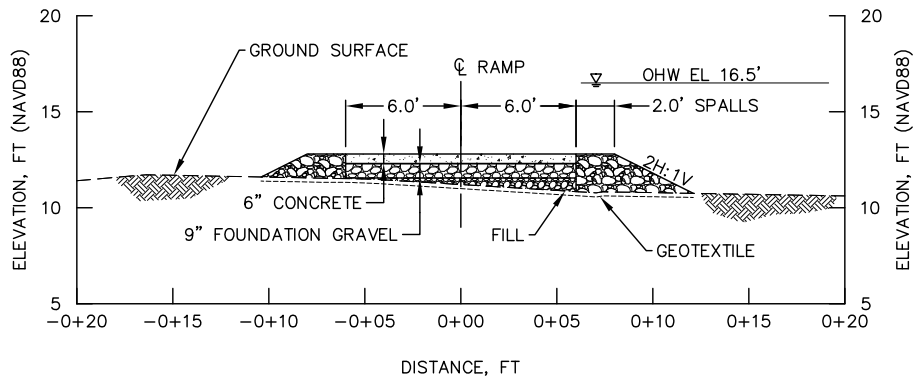
ADJACENT PROPERTY OWNER:  
 1. Terras Company, LLC (N)  
 2. Port of Kalama (S)

LAT/LONG: LAT: 46.05, LONG: -122.85  
 DATUM: V: NAVD 88 H: NAD 83/07  
 SHEET 1 OF 4 DATE: 10-3-12

IN: SEC 31, T7N, R1W, WM  
 NEAR/AT: Kalama, WA  
 COUNTY: Cowlitz County  
 STATE: WA



SECTION B  
SCALE: 1" = 10'



SECTION C  
SCALE: 1" = 10'

DRAFT

ENG. PROJECT NO. 3362-00

PORTION OF: \_\_\_\_\_

REFERENCE NUMBER: **CZ:A064:12-1**  
 APPLICANT:  
 WASHINGTON DEPT. of FISH & WILDLIFE  
 600 CAPITOL WAY N.  
 OLYMPIA, WA 98501-1091

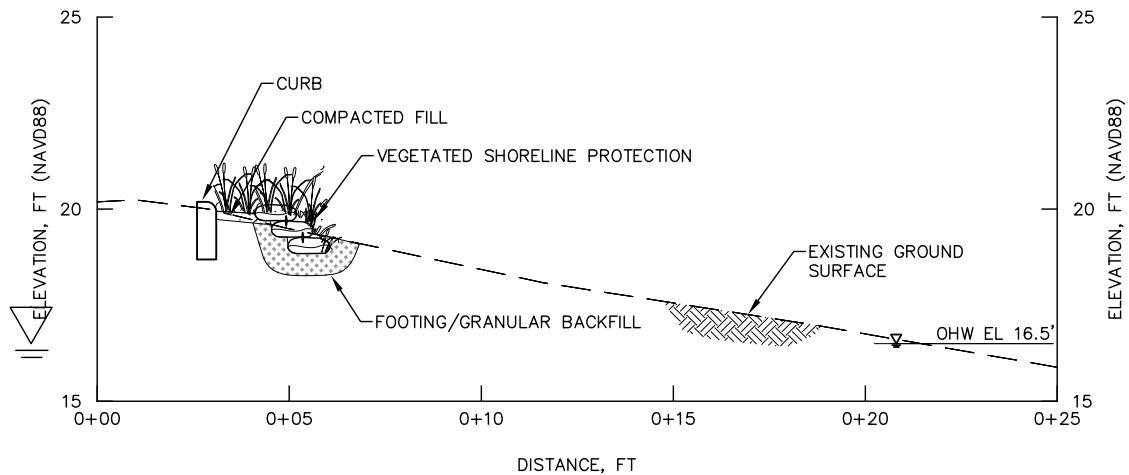
PROJECT LOCATION (ADDRESS):  
 North of Kalama River Road  
 on Old Pacific Hwy S  
 Kalama, Cowlitz County, WA

PROPOSED PROJECT:

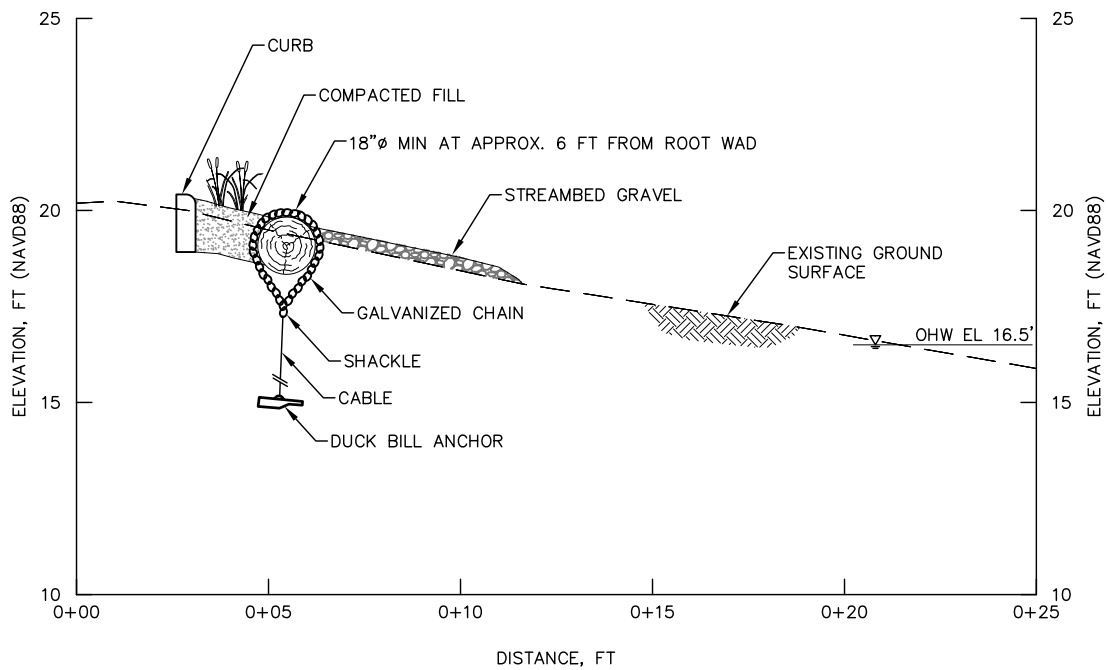
ADJACENT PROPERTY OWNER:  
 1. Terras Company, LLC (N)  
 2. Port of Kalama (S)

LAT/LONG: LAT: 46.05, LONG: -122.85  
 DATUM: V: NAVD 88 H: NAD 83/07  
 SHEET 2 OF 4 DATE: 10-3-12

IN: SEC 31, T7N, R1W, WM  
 NEAR/AT: Kalama, WA  
 COUNTY: Cowlitz County  
 STATE: WA



**ENVIROLOK SECTION** D  
13  
SCALE: 1" = 5'



**WOODY DEBRIS SECTION** D  
13  
SCALE: 1" = 5'

DRAFT

ENG. PROJECT NO. 3362-00

PORTION OF: \_\_\_\_\_

REFERENCE NUMBER: **CZ:A064:12-1**  
 APPLICANT:  
 WASHINGTON DEPT. of FISH & WILDLIFE  
 600 CAPITOL WAY N.  
 OLYMPIA, WA 98501-1091

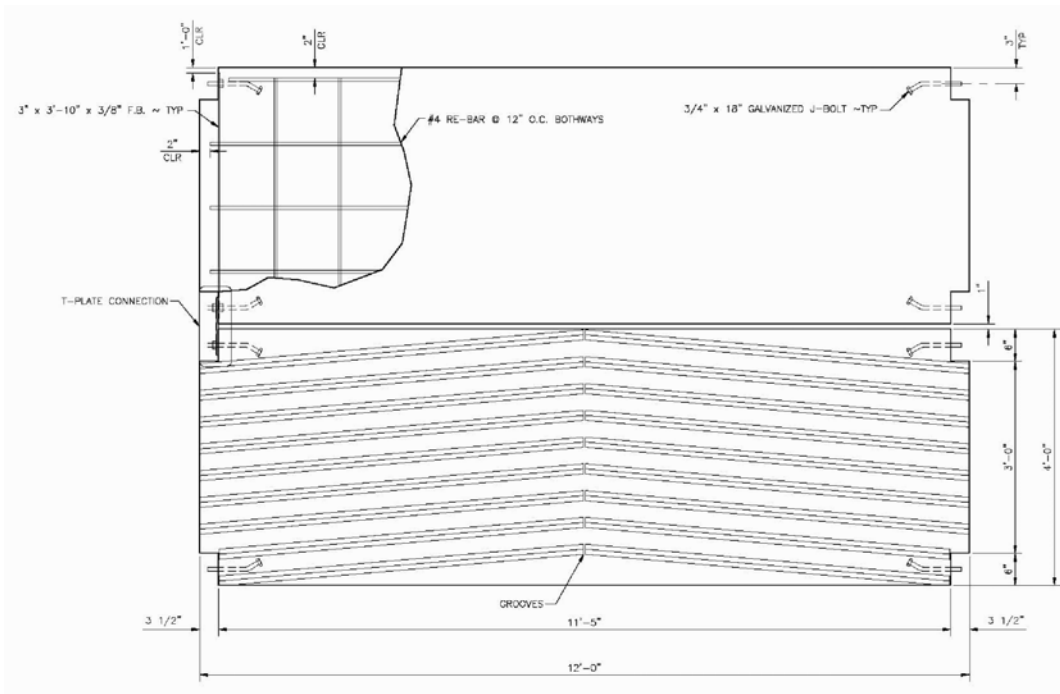
PROJECT LOCATION (ADDRESS):  
 North of Kalama River Road  
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 Kalama, Cowlitz County, WA

PROPOSED PROJECT:

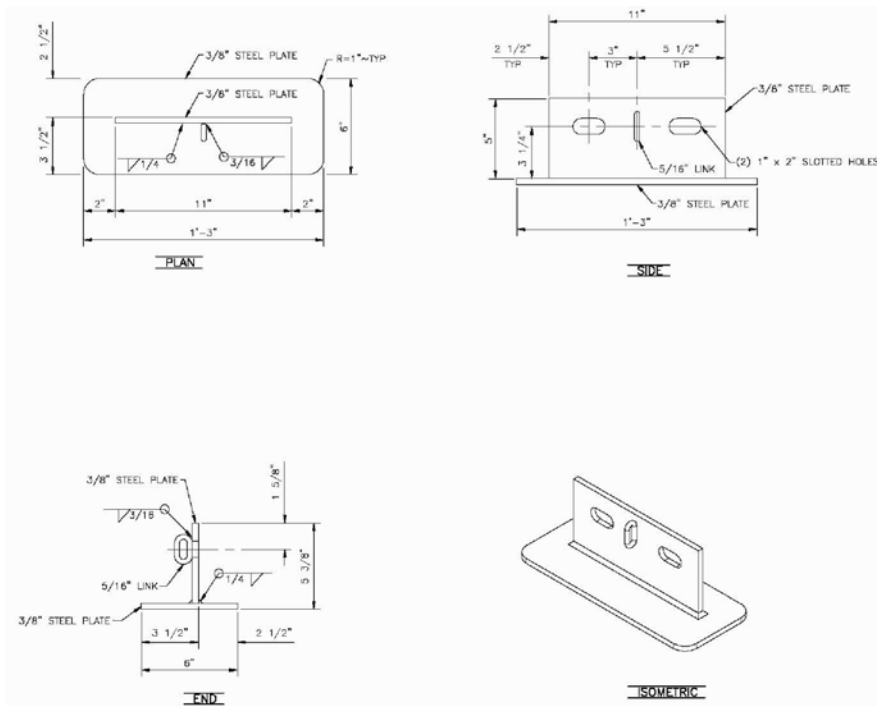
ADJACENT PROPERTY OWNER:  
 1. Terras Company, LLC (N)  
 2. Port of Kalama (S)

LAT/LONG: LAT: 46.05, LONG: -122.85  
 DATUM: V: NAVD 88 H: NAD 83/07  
 SHEET 3 OF 4 DATE: 10-3-12

IN: SEC 31, T7N, R1W, WM  
 NEAR/AT: Kalama, WA  
 COUNTY: Cowlitz County  
 STATE: WA



**RAMP PLANK ASSEMBLY**  
SCALE: 1" = 3'



**T-PLATE CONNECTION ASSEMBLY**  
SCALE: 1" = 3'

DRAFT

ENG. PROJECT NO. 3362-00

PORTION OF: \_\_\_\_\_

REFERENCE NUMBER: **CZ:A064:12-1**  
 APPLICANT:  
 WASHINGTON DEPT. of FISH & WILDLIFE  
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 OLYMPIA, WA 98501-1091

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IN: SEC 31, T7N, R1W, WM  
 NEAR/AT: Kalama, WA  
 COUNTY: Cowlitz County  
 STATE: WA