



US Army Corps
of Engineers
Seattle District



WASHINGTON STATE
DEPARTMENT OF
E C O L O G Y

Joint Public Notice

Application for a Department of the Army Permit and a Washington Department of Ecology Water Quality Certification and/or Coastal Zone Management Consistency Concurrence – REVISION

US Army Corps of Engineers
Regulatory Branch
Post Office Box 3755
Seattle, WA 98124-3755
Telephone (206) 316-3048
Attn: Danette L. Guy, Project Manager

WA Department of Ecology
SEA Program
Post Office Box 47600
Olympia, WA 98504-7600
Telephone (360) 407-6076
Attn: SEA Program, Federal Permit
Coordinator

Public Notice Date: October 1, 2018
Expiration Date: October 16, 2018

Reference No.: NWS-2016-1117
Name: Wahkiakum County Public
Works

15-DAY PUBLIC NOTICE

REVISION: This notice revises the total amount of material proposed to be placed, identifies impacts to wetlands, and includes a compensatory mitigation plan, as described in the U.S. Army Corps of Engineers/ Washington Department of Ecology Joint Public Notice dated March 9, 2017.

The revised information is as follows: The applicant, Wahkiakum County Public Works, is proposing to place 1,352,720 cubic yards (CY) of clean dredged material (sand) on 74 acres over a period of 10 years. The original public notice specified the applicant proposed to discharge 2,182,080 CY on 104 acres over the same 10-year period. The proposed changes are a result of project modifications in accordance with the Section 408 Authorization.

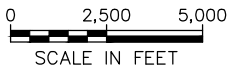
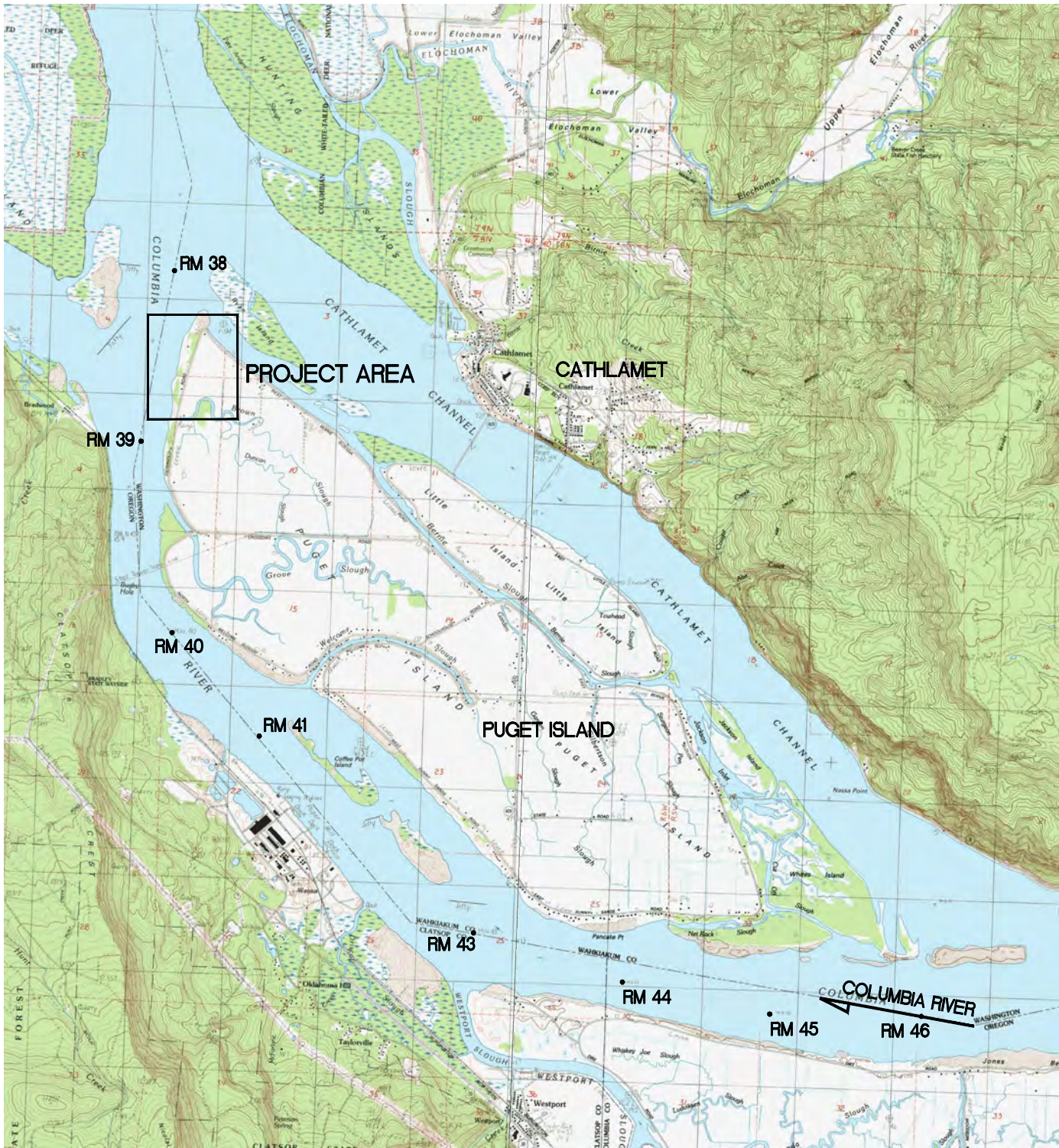
Proposed revisions to sites include:

- 1) River Mile 38.25, Sand Pit -- the original proposal was that 16 residential parcels would receive up to 366,870 CY over 21.7 acres. The amount of material and acreage remains the same; however, the proposed revision adds an additional parcel which was inadvertently excluded on the previous notice.
- 2) River Mile 40.0-40.5, North Welcome Slough – the original proposal was that 26 parcels would receive up to 1,036,231 CY over 41.7 acres. The proposed revision includes 21 parcels that would receive up to 587,500 CY over 21.6 acres. This is a decrease of five parcels, 20.1 acres, and 448,731 CY of material.
- 3) River Mile 43.5, Pancake Point – the original proposal was that 26 parcels would receive up to 286,030 CY of material over 17.6 acres. The proposed revision includes 29 parcels that would receive up to 247,900 CY of material over 17.8 acres. This is a decrease in 38,130 CY of material, an increase of 0.20 of an acre, and the addition of three parcels.

- 4) River Mile 47.5, Cape Horn – the original proposal was that 29 parcels would receive up to 492,950 CY of material over 22.9 acres. The proposed revision includes 16 parcels that would receive up to 150,450 CY of material over 12.9 acres. This a decrease in 13 parcels, 10 acres, and 342,500 CY of material.

The revised project would also result in additional impacts to 0.11 of an acre of wetlands at the North Welcome Slough placement area. To appropriately compensate for the proposed unavoidable impacts to wetlands, the applicant has submitted a mitigation bank use plan proposing to purchase 0.11 universal credit from the Coweeman River Mitigation Bank in Cowlitz County.

All other information in the Joint Public Notice dated March 9, 2017, for NWS-2016-1117 remains unchanged.



NWS-2016-1117
 Date: 8/1/2018
 Sheet 1 of 21

PURPOSE: RESTORE ERODING BANK AND PROTECT MULTIPLE UPLAND PROPERTIES

DATUM: CRD

ADJACENT PROPERTY OWNERS:
 1. SEE SHEET 5

APPLICATION BY: WAHAKIUM CO. PUBLIC WORKS

**SAND PIT SITE
 SAND PLACEMENT**

VICINITY MAP

PROPOSED: PLACE DREDGED RIVER SAND ON ERODED BANK

IN: COLUMBIA RIVER
AT: RIVER MILE 38.25

COUNTY: WAHAKIUM **USACE REF:**

S

FILE: Z:\367004 - Wahkiakum County - Puget Island Dredged Material Placement\7 - Design\367004-Vicinity Map.dwg



NOTES

1. UPLAND TOPOGRAPHY GENERATED FROM 2005 LIDAR DATA AND GPS SURVEY POINTS COLLECTED FEBRUARY 26, 2016.
2. BATHYMETRY GENERATED FROM JAN 2016 HYDROGRAPHIC SURVEY BY USACE.

SITE PLAN



NWS-2016-1117
Date: 8/1/2018
Sheet 2 of 21

WATER LEVELS, FT. (CRD)	
ORDINARY HIGH WATER (OHW)	9.8

PURPOSE: RESTORE ERODING BANK AND PROTECT MULTIPLE UPLAND PROPERTIES

DATUM: CRD

ADJACENT PROPERTY OWNERS:

1. SEE SHEET 5

APPLICATION BY: WAHAKIUM CO. PUBLIC WORKS

**SAND PIT SITE
SAND PLACEMENT
EXISTING SITE PLAN**

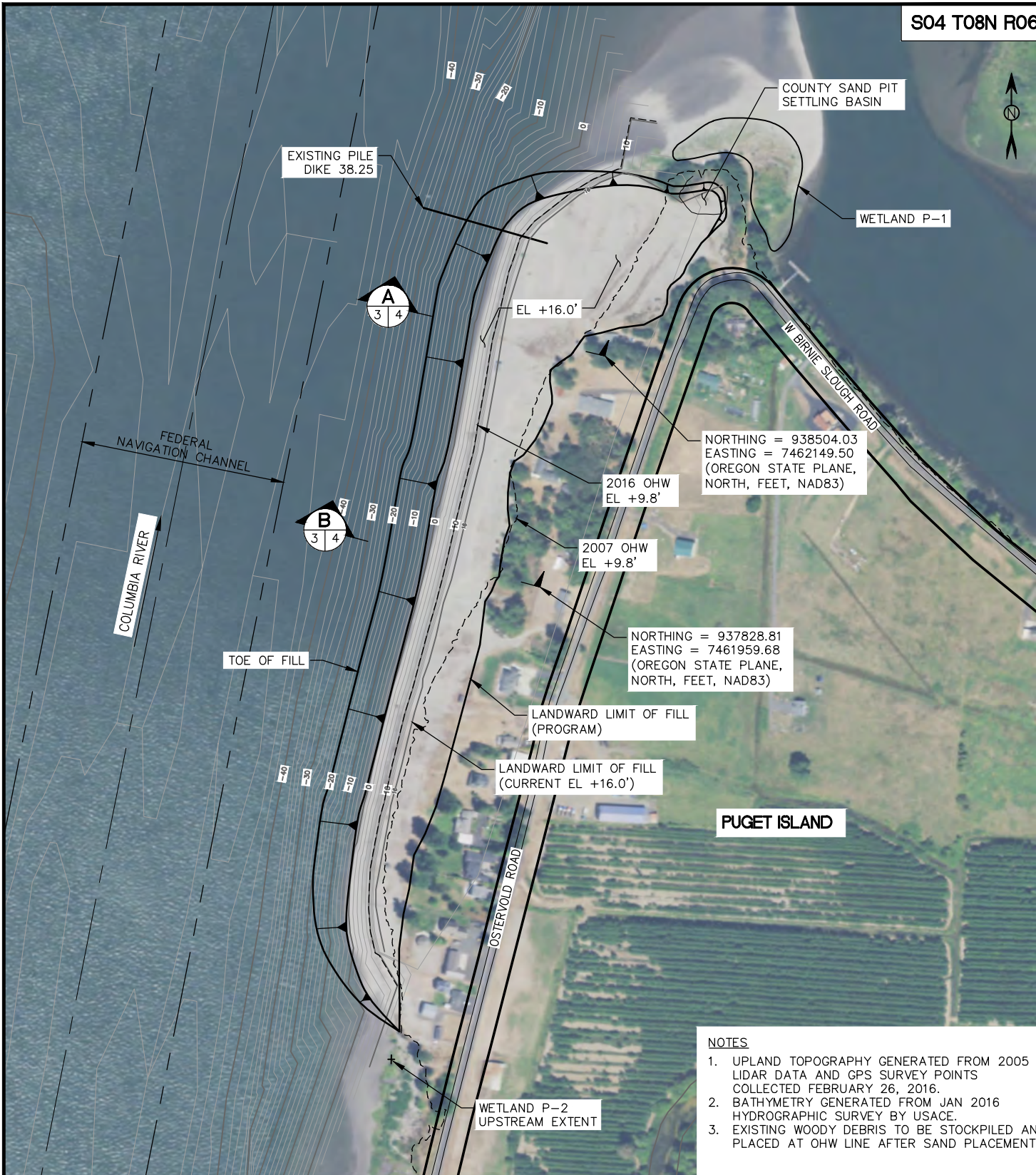
PROPOSED: PLACE DREDGED RIVER SAND ON ERODED BANK

IN: COLUMBIA RIVER

AT: RIVER MILE 38.25

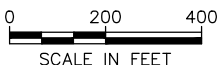
COUNTY: WAHAKIUM **USACE REF:**

FILE: Z:\367004 - Wahkiakum County - Puget Island Dredged Material Placement\7 - Design\367004-Sand Pit_Permit.dwg



- NOTES**
1. UPLAND TOPOGRAPHY GENERATED FROM 2005 LIDAR DATA AND GPS SURVEY POINTS COLLECTED FEBRUARY 26, 2016.
 2. BATHYMETRY GENERATED FROM JAN 2016 HYDROGRAPHIC SURVEY BY USACE.
 3. EXISTING WOODY DEBRIS TO BE STOCKPILED AND PLACED AT OHW LINE AFTER SAND PLACEMENT.

SITE PLAN



WATER LEVELS, FT. (CRD)	
ORDINARY HIGH WATER (OHW)	9.8

NWS-2016-1117
 Date: 8/1/2018
 Sheet 3 of 21

PURPOSE: RESTORE ERODING BANK AND PROTECT MULTIPLE UPLAND PROPERTIES

DATUM: CRD

ADJACENT PROPERTY OWNERS:
 1. SEE SHEET 5

APPLICATION BY: WAHKIAKUM CO. PUBLIC WORKS

**SAND PIT SITE
 SAND PLACEMENT**

PROPOSED SITE PLAN

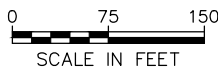
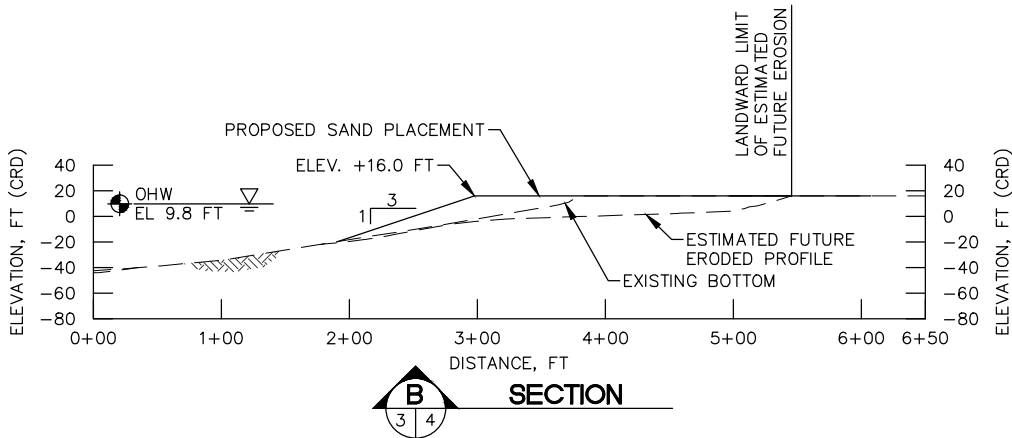
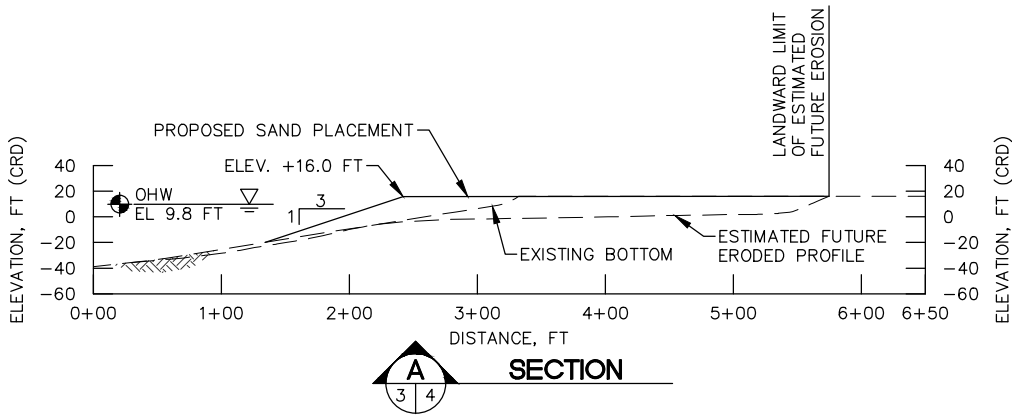
PROPOSED: PLACE DREDGED RIVER SAND ON ERODED BANK

IN: COLUMBIA RIVER

AT: RIVER MILE 38.25

COUNTY: WAHKIAKUM **USACE REF.:**

FILE: Z:\367004 - Wankiakum County - Puget Island Dredged Material Placement\7 - Design\367004-Sand Pit_Permit.dwg



NWS-2016-1117
 Date: 8/1/2018
 Sheet 4 of 21

PURPOSE: RESTORE ERODING BANK AND PROTECT MULTIPLE UPLAND PROPERTIES

DATUM: CRD

ADJACENT PROPERTY OWNERS:
 1. SEE SHEET 5

APPLICATION BY: WAHAKIACUM CO. PUBLIC WORKS

**SAND PIT SITE
 SAND PLACEMENT**

SECTIONS

PROPOSED: PLACE DREDGED RIVER SAND ON ERODED BANK

IN: COLUMBIA RIVER
AT: RIVER MILE 38.25

COUNTY: WAHAKIACUM **USACE REF:**



PARCEL NUMBER	PROPERTY OWNER(S)	ADDRESS
410002	Mary Ellen Hegnes	600 N 50th, Longview, WA 98632
410003	Diking District #1	County Property
440001	Robert and Patricia Ohrberg	249 Ostervold Rd., Cathlamet, WA 98612
440002	Hilarie Larson	Po Box 567, Cathlamet, WA 98612
440004	Robert and Patricia Ohrberg	249 Ostervold Rd., Cathlamet, WA 98612
440005	Gregg Carlson	205 Ostervold Rd., Cathlamet, WA 98612
440006	Frans Eykel	199 Ostervold Rd., Cathlamet, WA 98612
440007	Robert Ohrberg Jr.	217 Ostervold Rd., Cathlamet, WA 98612
440008	Jody Wagner Trust	1750 NW Saltsman Rd., Portland, OR 97229
440009	Rick Watkins	Po Box 484, Cathlamet, WA 98612
120003	Frans Eykel	199 Ostervold Rd., Cathlamet, WA 98612
120004	Brent and Renea Freeman	197 Ostervold Rd., Cathlamet, WA 98612
120005	Arthur Hauge	Po Box 8, Cathlamet, WA 98612
120006	Michelle Alward	193 Ostervold Rd, Cathlamet, WA 98612
120007	Robert Brewer	Po Box 67, Crescent City, CA 95531
120009	White Properties 2, LLC.	Po Box K, Longview, WA 98632
120010	Jeffrey & Sherrill Bollen	Po Box 32, Cathlamet, WA 98612
120011	Lewis & Carol Raymond	12401 NE 15th Ave., Vancouver, WA 98685

NOT TO SCALE

NWS-2016-1117
Date: 8/1/2018
Sheet 5 of 21

PURPOSE: RESTORE ERODING BANK AND PROTECT MULTIPLE UPLAND PROPERTIES

DATUM: CRD

ADJACENT PROPERTY OWNERS:
1. SEE SHEET 5

APPLICATION BY: WAHAKIUM CO. PUBLIC WORKS

**SAND PIT SITE
SAND PLACEMENT
PARCEL MAP**

PROPOSED: PLACE DREDGED RIVER SAND ON ERODED BANK

IN: COLUMBIA RIVER

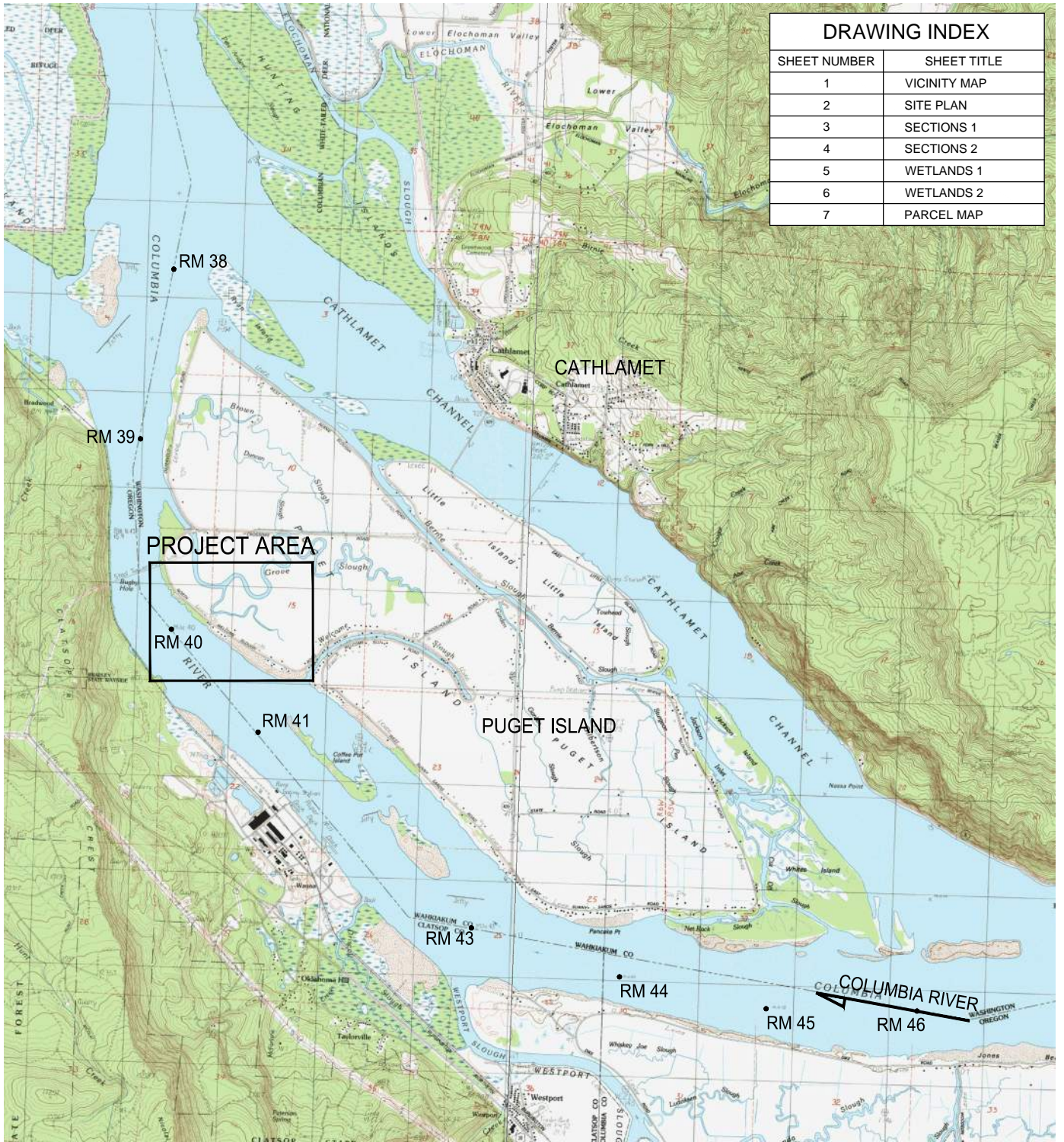
AT: RIVER MILE 38.25

COUNTY: WAHAKIUM **USACE REF.:**

FILE: Z:\367004 - Wahkiakum County - Puget Island Dredged Material Placement\7 - Design\367004-Sand Pit_Permit.dwg

DRAWING INDEX

SHEET NUMBER	SHEET TITLE
1	VICINITY MAP
2	SITE PLAN
3	SECTIONS 1
4	SECTIONS 2
5	WETLANDS 1
6	WETLANDS 2
7	PARCEL MAP



NWS-2016-1117
Date: 8/1/2018
Sheet 6 of 21

PURPOSE: RESTORE ERODING BANK AND PROTECT MULTIPLE UPLAND PROPERTIES

DATUM: CRD

ADJACENT PROPERTY OWNERS:

APPLICATION BY: WAHAKIUM CO. PUBLIC WORKS

WELCOME SLOUGH SAND PLACEMENT SITE

VICINITY MAP

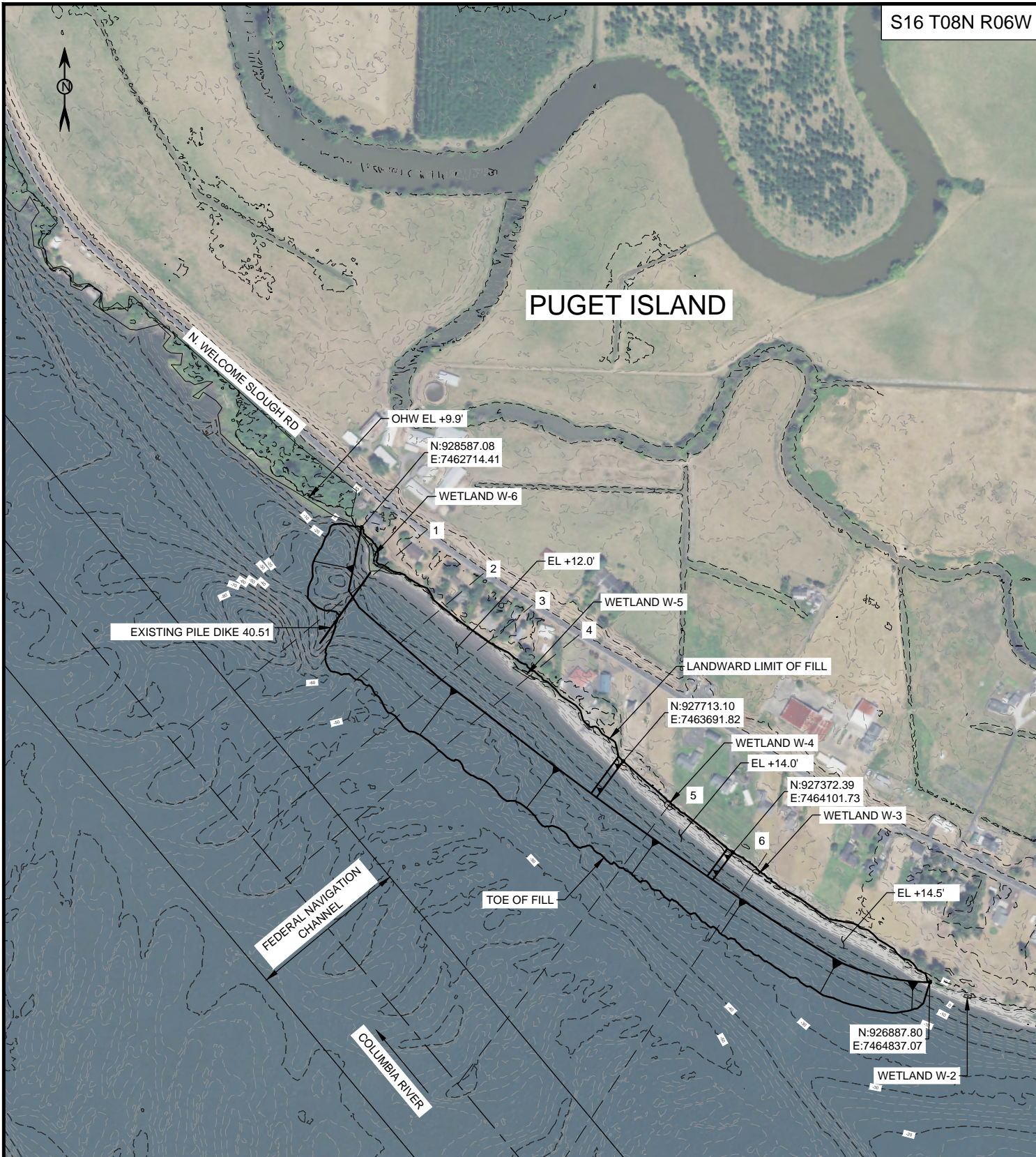
PROPOSED: PLACE DREDGED RIVER SAND AT ERODED BANK (587,500 CY)

IN: COLUMBIA RIVER

AT: RIVER MILE 40.5-41.0

COUNTY: WAHAKIUM USACE REF:

PUGET ISLAND



NOTES

1. UPLAND TOPOGRAPHY GENERATED FROM 2010 LIDAR DATA.
2. BATHYMETRY IS FROM NOAA MULTI-BEAM SURVEY 2009.
3. WETLAND BOUNDARIES SURVEYED WITH GPS BY GRETTIE ASSOCIATES.



WATER LEVELS, FT. (CRD)

ORDINARY HIGH WATER (OHW)	+9.9'
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PURPOSE: RESTORE ERODING BANK AND PROTECT MULTIPLE UPLAND PROPERTIES

DATUM: CRD
ADJACENT PROPERTY OWNERS: NWS-2016-1117
 Date: 8/1/2018
 Sheet 7 of 21

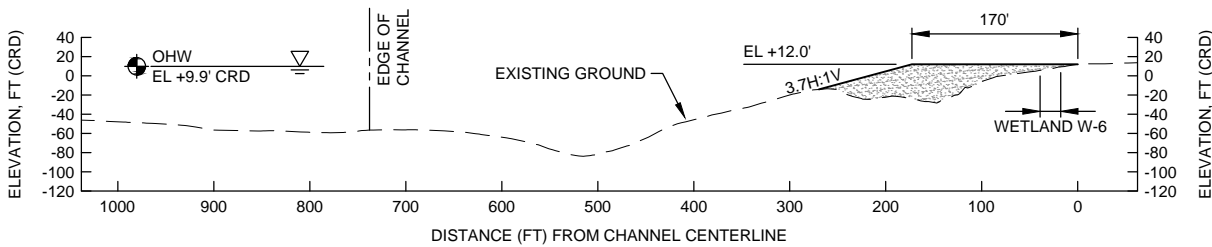
APPLICATION BY: WAHKIAKUM CO. PUBLIC WORKS

WELCOME SLOUGH SAND PLACEMENT SITE

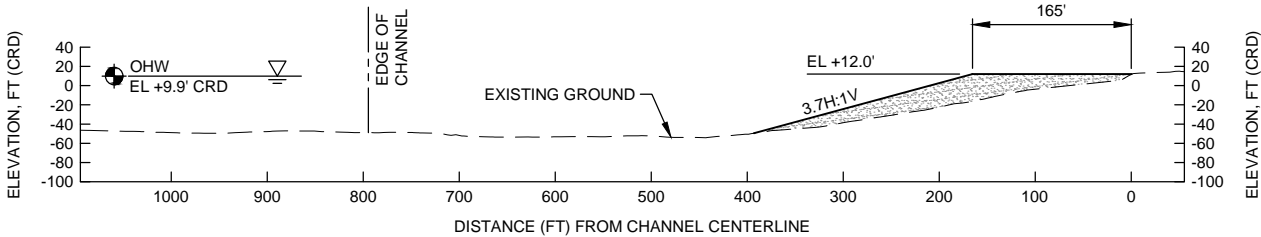
SITE PLAN

PROPOSED: PLACE DREDGED RIVER SAND AT ERODED BANK (587,500 CY)

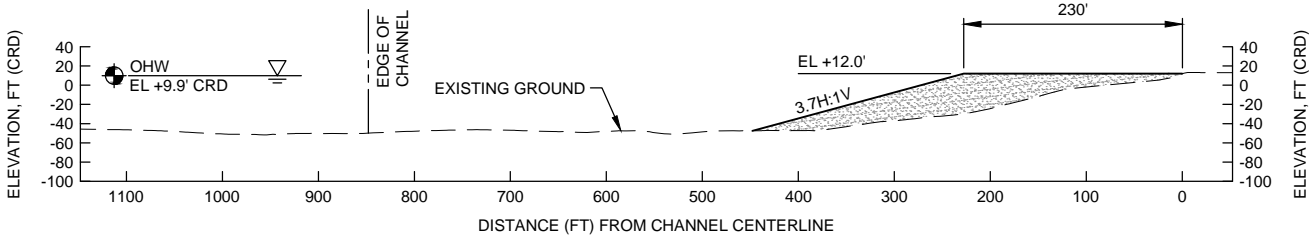
IN: COLUMBIA RIVER
AT: RIVER MILE 40.5-41.0
COUNTY: WAHKIAKUM **USACE REF:**



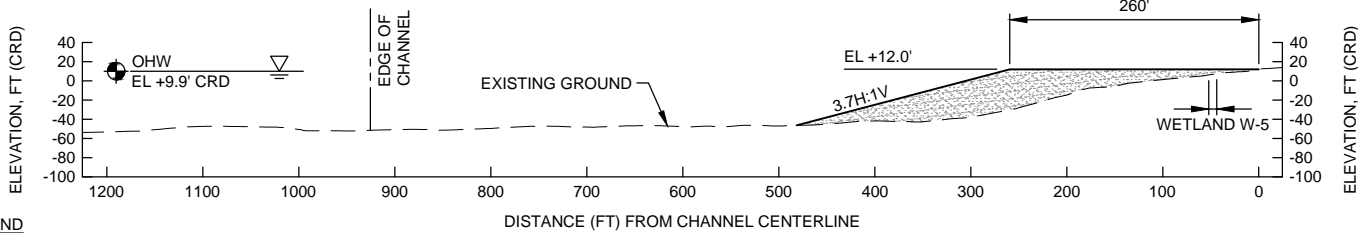
SECTION 1



SECTION 2



SECTION 3



SECTION 4

- LEGEND**
- EXISTING GROUND
 - ▨ PROPOSED SAND PLACEMENT

NOTE
 1. PLACE FILL TO TOP OF ERODED BANK AT TIME OF CONSTRUCTION.



PURPOSE: RESTORE ERODING BANK AND PROTECT MULTIPLE UPLAND PROPERTIES

DATUM: CRD
ADJACENT PROPERTY OWNERS: NWS-2016-1117
 Date: 8/1/2018
 Sheet 8 of 21

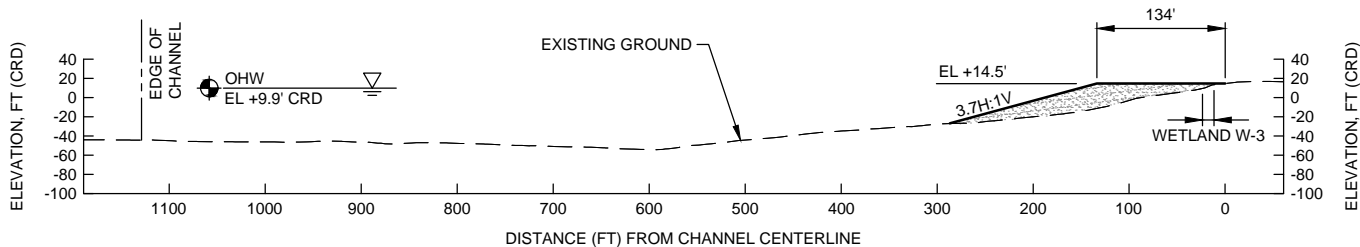
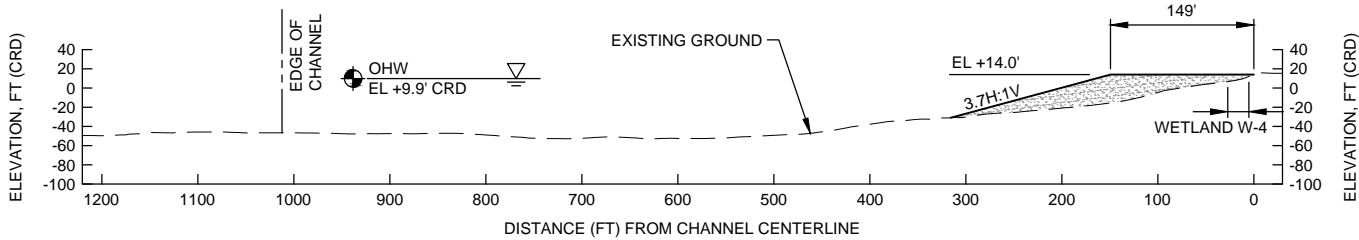
APPLICATION BY: WAHKIAKUM CO. PUBLIC WORKS

WELCOME SLOUGH SAND PLACEMENT SITE

SECTIONS 1

PROPOSED: PLACE DREDGED RIVER SAND AT ERODED BANK (587,500 CY)

IN: COLUMBIA RIVER
AT: RIVER MILE 40.5-41.0
COUNTY: WAHKIAKUM **USACE REF:**



LEGEND

- EXISTING GROUND
- ▨ PROPOSED SAND PLACEMENT

NOTE

1. PLACE FILL TO TOP OF ERODED BANK AT TIME OF CONSTRUCTION.

NWS-2016-1117
 Date: 8/1/2018
 Sheet 9 of 21



PURPOSE: RESTORE ERODING BANK AND PROTECT MULTIPLE UPLAND PROPERTIES

DATUM: CRD

ADJACENT PROPERTY OWNERS:

APPLICATION BY: WAHAKIACUM CO. PUBLIC WORKS

WELCOME SLOUGH SAND PLACEMENT SITE

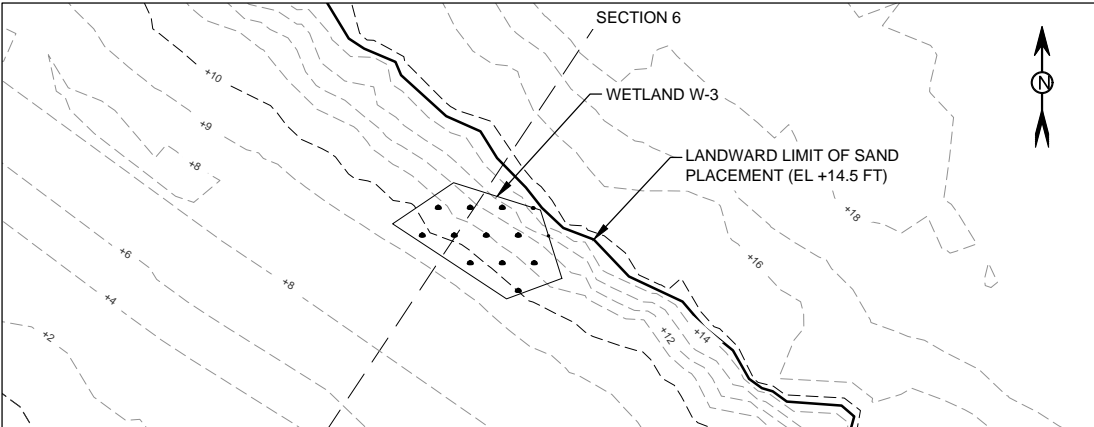
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PROPOSED: PLACE DREDGED RIVER SAND AT ERODED BANK (587,500 CY)

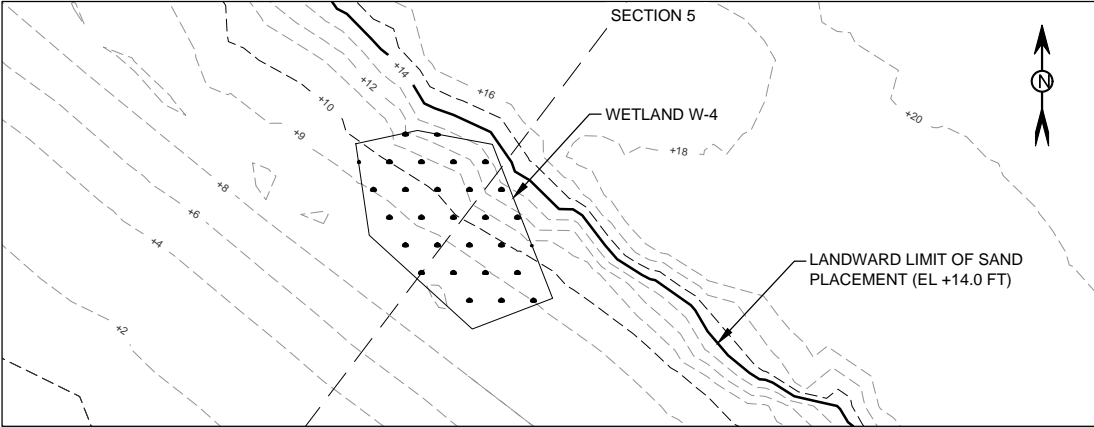
IN: COLUMBIA RIVER

AT: RIVER MILE 40.5-41.0

COUNTY: WAHAKIACUM **USACE REF:**



WETLAND W-3



WETLAND W-4



NOTE

- 1. VERIFY WETLANDS AT TIME OF CONSTRUCTION.

NWS-2016-1117
 Date: 8/1/2018
 Sheet 10 of 21

PURPOSE: RESTORE ERODING BANK AND PROTECT MULTIPLE UPLAND PROPERTIES

DATUM: CRD

ADJACENT PROPERTY OWNERS:

APPLICATION BY: WAHKIAKUM CO. PUBLIC WORKS

**WELCOME SLOUGH
 SAND PLACEMENT SITE**

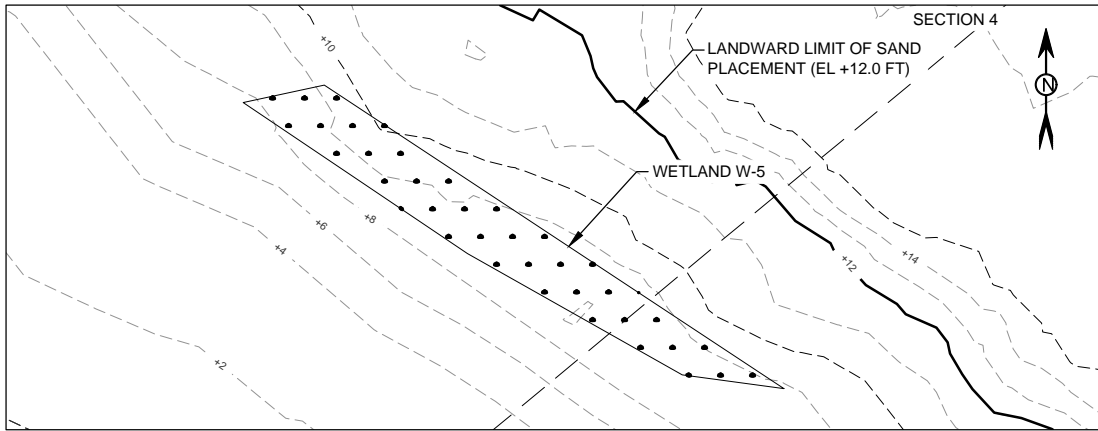
WETLANDS 1

PROPOSED: PLACE DREDGED RIVER SAND AT ERODED BANK (587,500 CY)

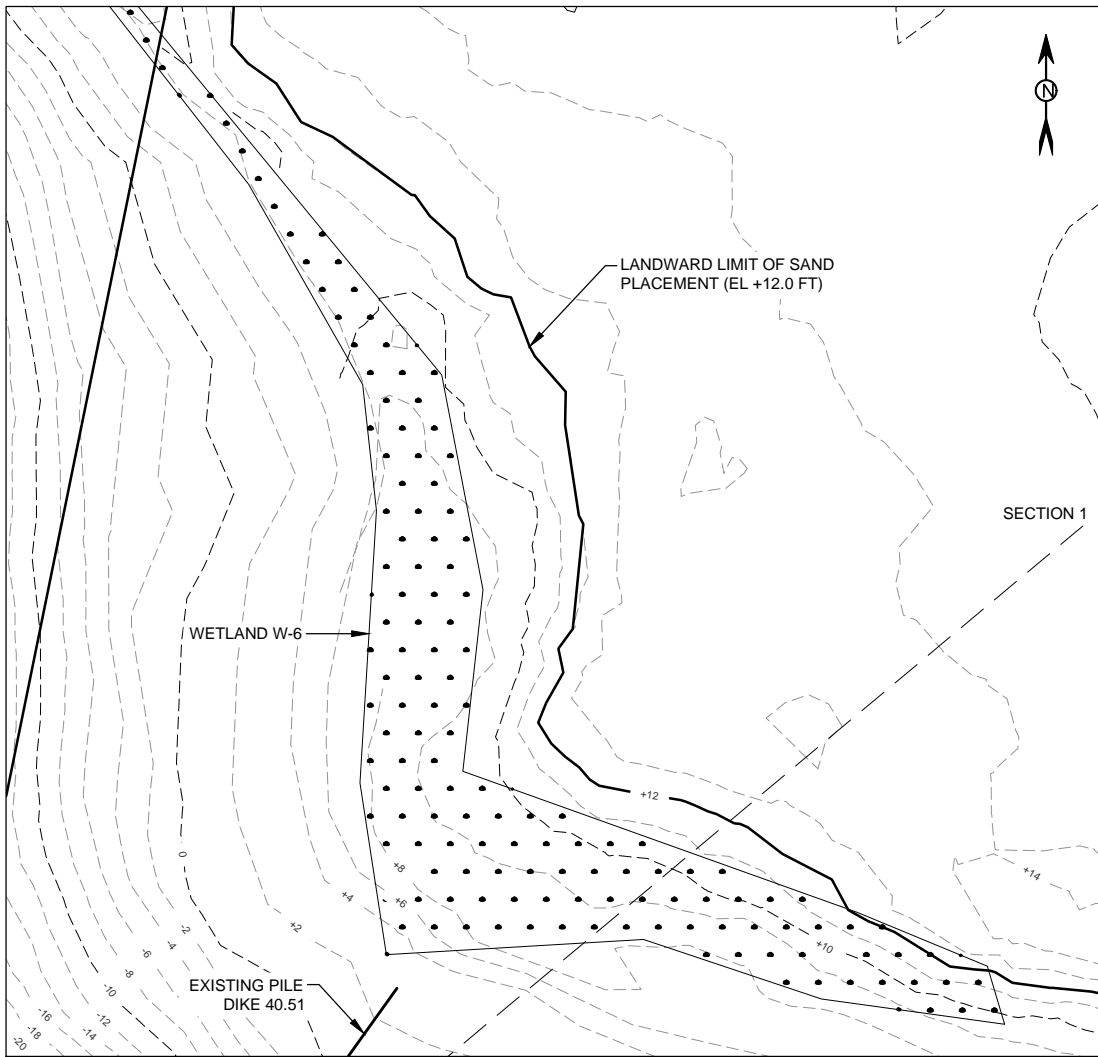
IN: COLUMBIA RIVER

AT: RIVER MILE 40.5-41.0

COUNTY: WAHKIAKUM **USACE REF:**



WETLAND W-5
 0 15 30
 SCALE IN FEET



WETLAND W-6
 0 15 30
 SCALE IN FEET

NOTE

- 1. VERIFY WETLANDS AT TIME OF CONSTRUCTION.

NWS-2016-1117
 Date: 8/1/2018
 Sheet 11 of 21

PURPOSE: RESTORE ERODING BANK AND PROTECT MULTIPLE UPLAND PROPERTIES

DATUM: CRD
ADJACENT PROPERTY OWNERS:

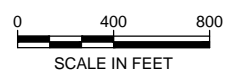
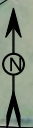
APPLICATION BY: WAHIAKUM CO. PUBLIC WORKS

**WELCOME SLOUGH
 SAND PLACEMENT SITE**

WETLANDS 2

PROPOSED: PLACE DREDGED RIVER SAND AT ERODED BANK (587,500 CY)

IN: COLUMBIA RIVER
AT: RIVER MILE 40.5-41.0
COUNTY: WAHIAKUM **USACE REF:**



PARCEL NUMBER	PROPERTY OWNER(S)	MAILING ADDRESS
2694	Fred Aegerter	403 N. Welcome Slough Rd, Cathlamet, WA 98612
2695	John Aegerter	395 N. Welcome Slough Rd, Cathlamet, WA 98612
2697	Ora Loraine Bauer	301 N. Welcome Slough Rd, Cathlamet, WA 98612
2713	Dennis & Bonnie Page	244 Milwaukee Pl, Kelso, WA 98626
2714	Clarence & Kay Johnson	10714 NE 183rd St, Battle Ground, WA 98604
2715	Kathryn Ijas	PO Box 363, Cathlamet, WA 98612
2716	Dennis & Bonnie Page	244 Milwaukee Pl, Kelso, WA 98626
2718	William Torget & Gill Lescarbeau	387 N. Welcome Slough Rd, Cathlamet, WA 98612
2719	Kathryn Ijas	PO Box 363, Cathlamet, WA 98612
2720	Libby & Matthew Yuskaitis Living Trust	4841 152nd Pl SE, Bellevue, WA 98006
2721	Richard Jaspers & Renee Jaspers-Johnson	3325 Virginia Way, Longview, WA 98632
2723	Kevin & Stephanie Prestegard	317 N. Welcome Slough Rd, Cathlamet, WA 98612
2724	Larry Reese	305 N. Welcome Slough Rd, Cathlamet, WA 98612
2726	Roderick & Karen Williams	23288 NE 15th St, Sammamish, WA 98074
2727	Douglas & Jill Martin Trust	PO Box 609, Cathlamet, WA 98612
2730	Lennis & Roberta Gibbons	323 N. Welcome Slough Rd, Cathlamet, WA 98612
2731	Jim & Marilyn Strange & Rod & Cecile Smith	60 Elkridge Land, Naselle, WA 98638
2732	Jacquelyn Ingalls	333 N. Welcome Slough Rd, Cathlamet, WA 98612
2733	Douglas & Jill Martin Trust	PO Box 609, Cathlamet, WA 98612
2734	Douglas & Jill Martin Trust	PO Box 609, Cathlamet, WA 98612
2735	William Champine & Paula Webb-Champine	319 N. Welcome Slough Rd, Cathlamet, WA 98612

NWS-2016-1117
Date: 8/1/2018
Sheet 12 of 21

PURPOSE: RESTORE ERODING BANK AND PROTECT MULTIPLE UPLAND PROPERTIES

DATUM: CRD

ADJACENT PROPERTY OWNERS:

APPLICATION BY: WAHKIAKUM CO. PUBLIC WORKS

WELCOME SLOUGH SAND PLACEMENT SITE

PARCEL MAP

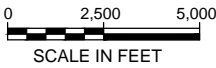
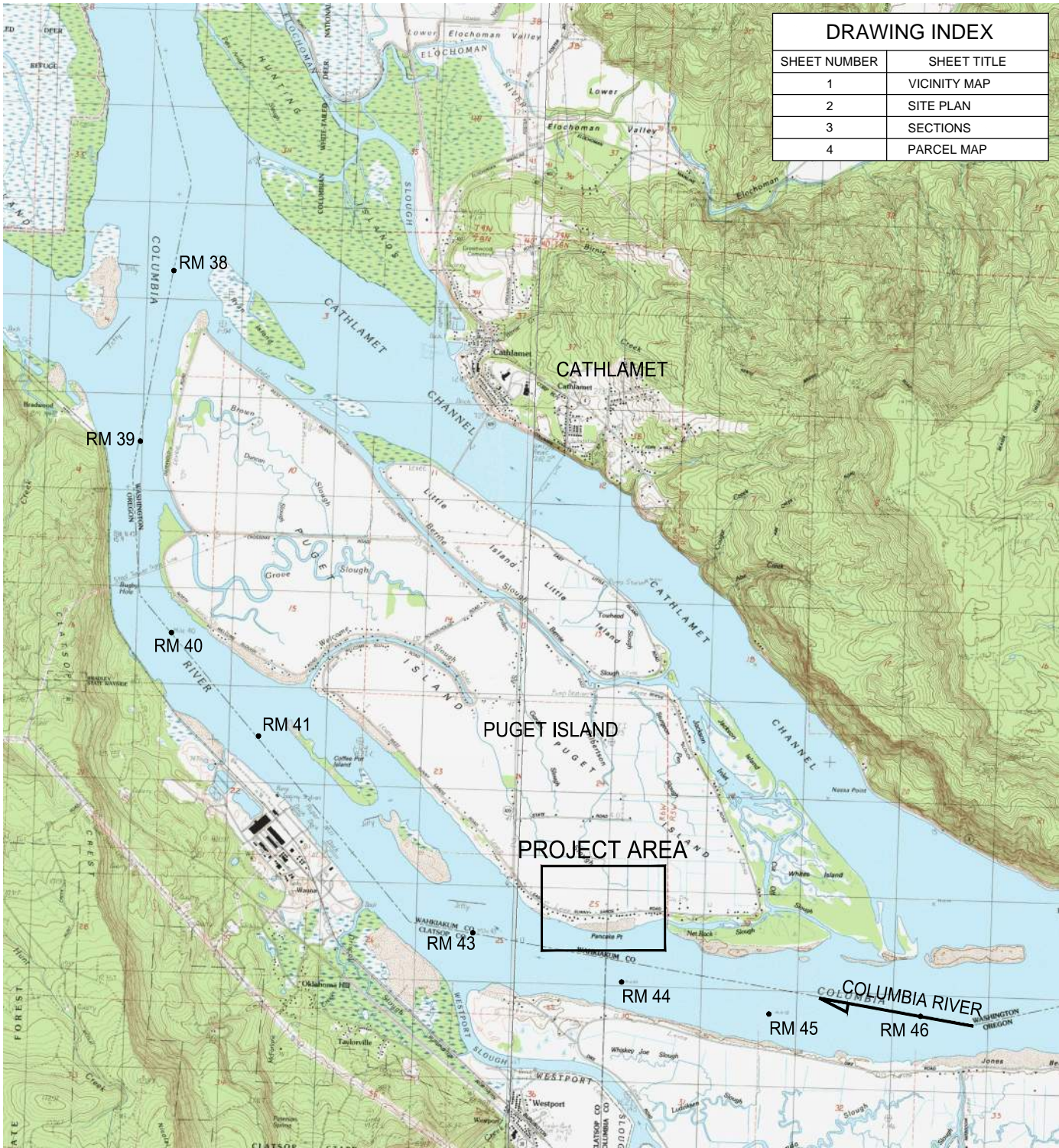
PROPOSED: PLACE DREDGED RIVER SAND AT ERODED BANK (587,500 CY)

IN: COLUMBIA RIVER

AT: RIVER MILE 40.5-41.0

COUNTY: WAHKIAKUM USACE REF:

DRAWING INDEX	
SHEET NUMBER	SHEET TITLE
1	VICINITY MAP
2	SITE PLAN
3	SECTIONS
4	PARCEL MAP



NWS-2016-1117
 Date: 8/1/2018
 Sheet 13 of 21

PURPOSE: RESTORE ERODING BANK AND PROTECT MULTIPLE UPLAND PROPERTIES

DATUM: CRD
ADJACENT PROPERTY OWNERS:

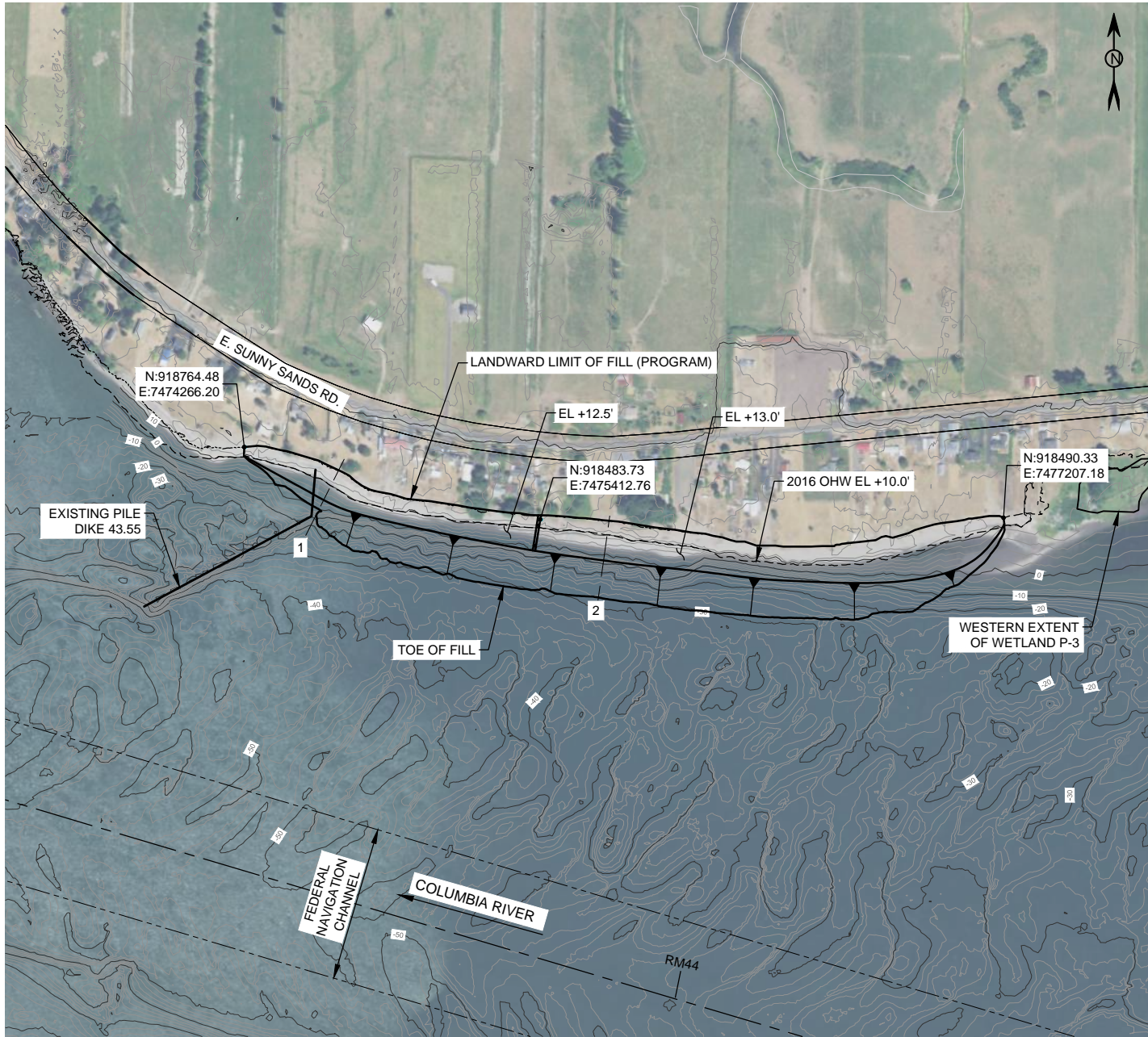
APPLICATION BY: WAHKIAKUM CO. PUBLIC WORKS

PANCAKE POINT SITE SAND PLACEMENT

VICINITY MAP

PROPOSED: PLACE DREDGED RIVER SAND ON ERODED BANK (247,900 CY PROGRAM CAPACITY)

IN: COLUMBIA RIVER
AT: RIVER MILE 43.5
COUNTY: WAHKIAKUM **USACE REF:**



SITE PLAN



NWS-2016-1117
Date: 8/1/2018
Sheet 14 of 21

NOTES

1. UPLAND TOPOGRAPHY GENERATED FROM JAN/FEB 2005 LIDAR DATA.
2. UPLAND TOPOGRAPHY SUPPLEMENTED WITH GPS POINTS IN 2016 AND 2018.
3. BATHYMETRY IS FROM NOAA MULTI-BEAM SURVEY 2009.
4. FILL LIMIT AND CAPACITY BASED ON MAXIMUM OF 2007 AND 2018 BANK EROSION EXTENTS.

WATER LEVELS, FT. (CRD)

ORDINARY HIGH WATER (OHW)	10.0
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PURPOSE: RESTORE ERODING BANK AND PROTECT MULTIPLE UPLAND PROPERTIES

DATUM: CRD

ADJACENT PROPERTY OWNERS:

APPLICATION BY: WAHKIAKUM CO. PUBLIC WORKS

PANCAKE POINT SITE SAND PLACEMENT

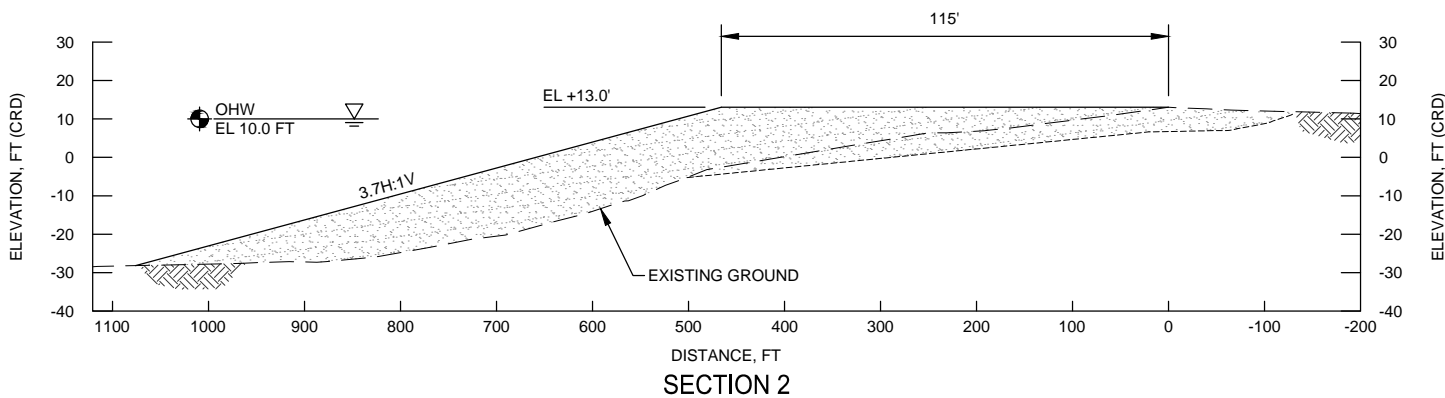
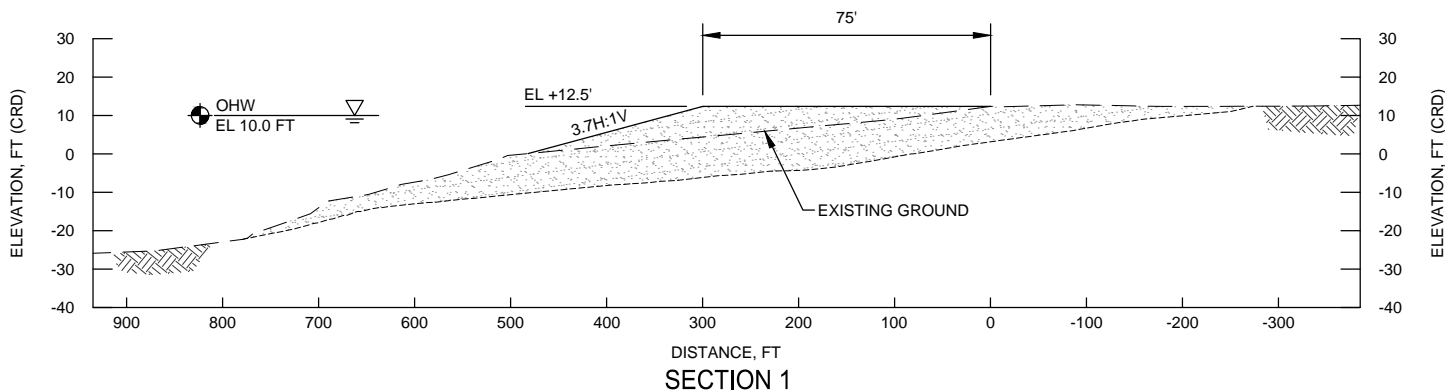
SITE PLAN

PROPOSED: PLACE DREDGED RIVER SAND ON ERODED BANK (247,900 CY PROGRAM CAPACITY)

IN: COLUMBIA RIVER

AT: RIVER MILE 43.5

COUNTY: WAHKIAKUM **USACE REF:**



LEGEND

- — — EXISTING GROUND
- - - - - ESTIMATED MAXIMUM ERODED PROFILE (2007 PROFILE)
- ▨ PROPOSED SAND PLACEMENT



NWS-2016-1117
Date: 8/1/2018
Sheet 15 of 21

PURPOSE: RESTORE ERODING BANK AND PROTECT MULTIPLE UPLAND PROPERTIES

DATUM: CRD

ADJACENT PROPERTY OWNERS:

APPLICATION BY: WAHIAKUM CO. PUBLIC WORKS

PANCAKE POINT SITE SAND PLACEMENT

SECTIONS

PROPOSED: PLACE DREDGED RIVER SAND ON ERODED BANK (247,900 CY PROGRAM CAPACITY)

IN: COLUMBIA RIVER

AT: RIVER MILE 43.5

COUNTY: WAHIAKUM **USACE REF:**



PARCEL NUMBER	NAME	MAILING ADDRESS
250806-230001	Clifford Roundtree	64 E Sunny Sands Rd., Cathlamet, WA 98612
250806-240011	Elizabeth Norris	2350 Jathom Lane, Longview WA 98632
250806-240009	Edwin & Donna Coe	72 E Sunny Sands Rd., Cathlamet, WA 98612
250806-240008	Betty Gregory	82 E Sunny Sands Rd., Cathlamet, WA 98612
250806-240010	Wayne Holloway	20 E Little Island Rd., Cathlamet, WA 98612
250806-240007	Thomas Silvestri	86 E Sunny Sands Rd., Cathlamet, WA 98612
250806-240006	Rheault Living Trust	5315 Oyster Bay Rd NW, Olympia, WA 98502
250806-240001	Toni & James Robinson	P. O. Box 585, Cathlamet, WA 98612
250806-240004	William & Colleen Krzton	98 E Sunny Sands Rd., Cathlamet, WA 98612
250806-240003	Albert Bergseng & Lynah Gale	100 E Sunny Sands Rd., Cathlamet, WA 98612
250806-240002	Michael & Sheila Lewis	104 E Sunny Sands Rd., Cathlamet, WA 98612
250806-210008	Terry Vik	275 E Sunny Sands Rd., Cathlamet, WA 98612
250806-210009	Gilbert Vik	275 E Sunny Sands Rd., Cathlamet, WA 98612
250806-210010	Murray Coleman	3748 Gravelly Beach Loop NW, Olympia, WA 98502
250806-130010	Jay & Mariane Brightbill	122 E Sunny Sands Rd., Cathlamet, WA 98612
250806-130009	Jay & Mariane Brightbill	122 E Sunny Sands Rd., Cathlamet, WA 98612
250806-130012	Wash State Dept. of Game	P.O. Box 43155, Olympia, WA 98504
250806-120004	John & Sandra Nelson	117 E Sunny Sands Rd., Cathlamet WA 98612
250806-130008	Olaf & Ellen Thomason, Sr.	132 E Sunny Sands Rd., Cathlamet, WA 98612
250806-130013	Karen Fleming	134 E Sunny Sands Rd., Cathlamet, WA 98612
250806-130011	Gary & Vicki Bergseng	140 E Sunny Sands Rd., Cathlamet, WA 98612
250806-130004	Flora Monte	142 E Sunny Sands Rd., Cathlamet, WA 98612
250806-130005	John & Ellen Tobin Trust	148 E Sunny Sands Rd., Cathlamet, WA 98612
250806-130003	Paul & Mary Vik	152 E Sunny Sands Rd., Cathlamet, WA 98612
250806-130002	Mark Vik	156 E Sunny Sands Rd., Cathlamet, WA 98612
250806-120001	William & Penny Springer	162 E Sunny Sands Rd., Cathlamet, WA 98612
250806-120007	Bud & Dorothy Mickelsen	166 E Sunny Sands Rd., Cathlamet, WA 98612
250806-140010	W. David & Cheryl Nelson	P. O. Box 724, Cathlamet, WA 98612
250806-140005	James & Charity Davis Trust	174 E Sunny Sands Rd. Cathlamet, WA 98612
250806-110003	Gary Baker	176 E Sunny Sands Rd. Cathlamet, WA 98612

NWS-2016-1117
Date: 8/1/2018
Sheet 16 of 21

PURPOSE: RESTORE ERODING BANK AND PROTECT MULTIPLE UPLAND PROPERTIES

DATUM: CRD

ADJACENT PROPERTY OWNERS:

APPLICATION BY: WAHKIAKUM CO. PUBLIC WORKS

PANCAKE POINT SITE SAND PLACEMENT

PARCEL MAP

PROPOSED: PLACE DREDGED RIVER SAND ON ERODED BANK (247,900 CY PROGRAM CAPACITY)

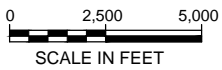
IN: COLUMBIA RIVER

AT: RIVER MILE 43.5

COUNTY: WAHKIAKUM USACE REF:



DRAWING INDEX	
SHEET NUMBER	SHEET TITLE
1	VICINITY MAP
2	SITE PLAN 1
3	SITE PLAN 2
4	STORMWATER CONVEYANCE SWALE SECTION
5	PARCELS



NWS-2016-1117
Date: 8/1/2018
Sheet 17 of 21

PURPOSE: RESTORE ERODING BANK AND PROTECT MULTIPLE UPLAND PROPERTIES

DATUM: CRD
ADJACENT PROPERTY OWNERS:

APPLICATION BY: WAHKIAKUM CO. PUBLIC WORKS

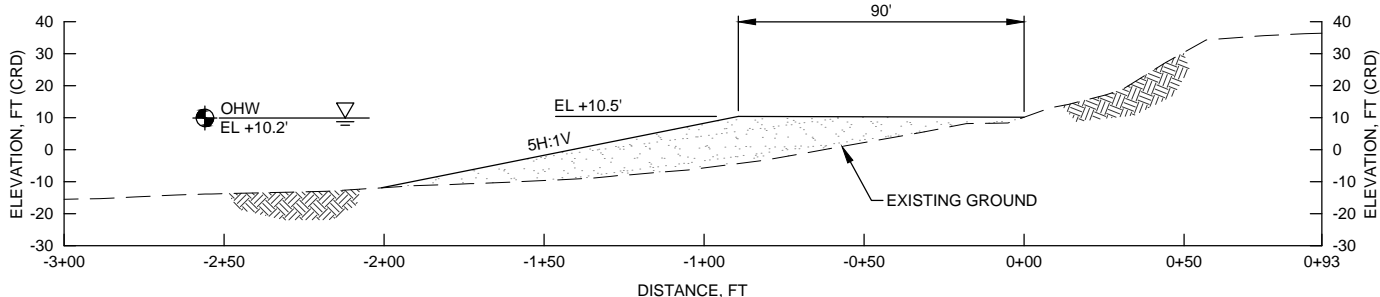
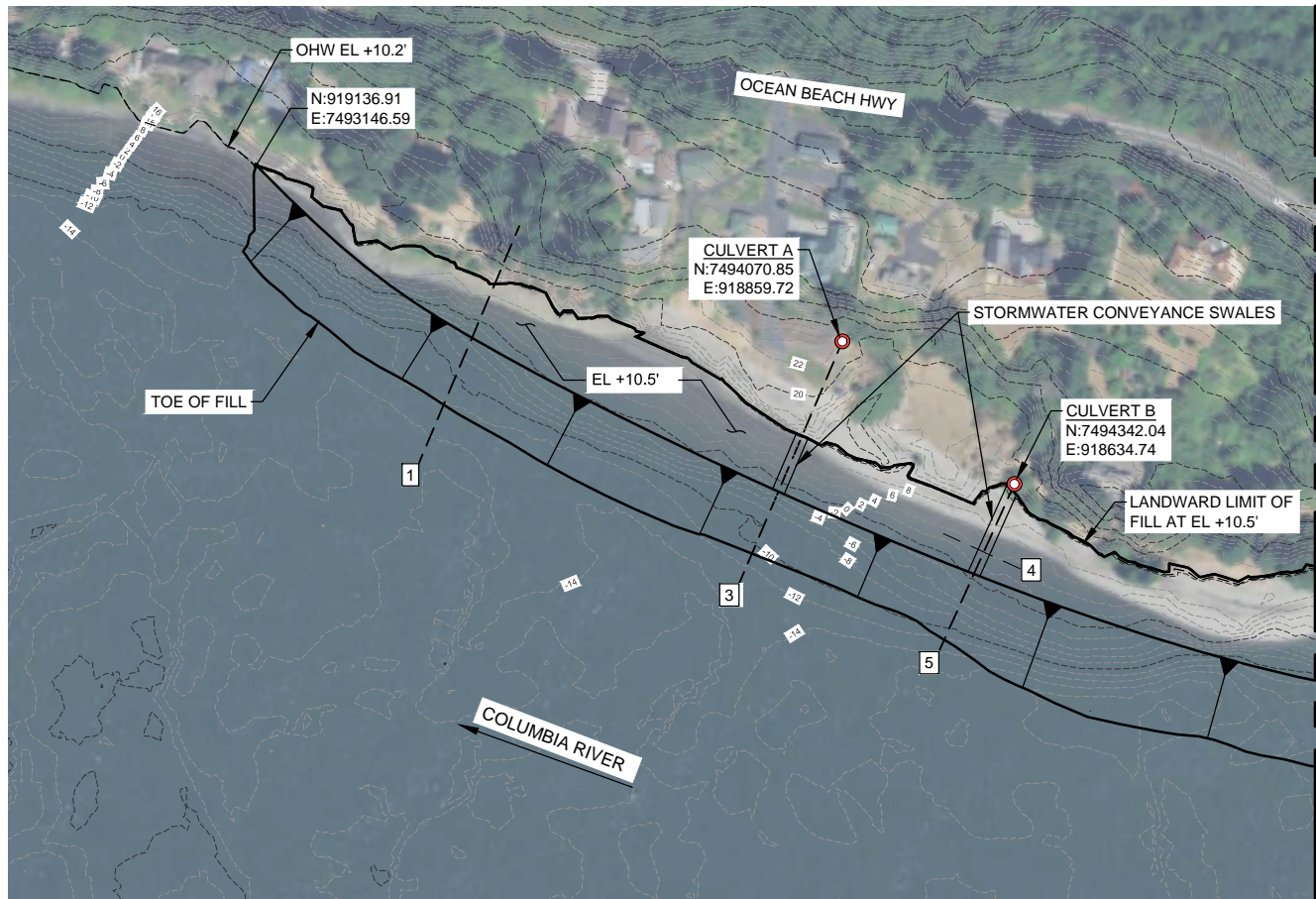
CAPE HORN SITE SAND PLACEMENT

VICINITY MAP

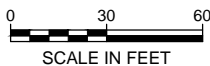
PROPOSED: PLACE DREDGED RIVER SAND AT ERODED BANK (150,450 CY)

IN: COLUMBIA RIVER
AT: RIVER MILE 47.5
COUNTY: WAHKIAKUM **USACE REF:**

DATE: 8/1/18



SECTION 1



NWS-2016-1117
Date: 8/1/2018
Sheet 18 of 21

WATER LEVELS, FT. (CRD)	
ORDINARY HIGH WATER (OHW)	10.2

LEGEND

- EXISTING GROUND
- PROPOSED SAND PLACEMENT

NOTES

1. UPLAND TOPOGRAPHY GENERATED FROM JAN/FEB 2005 LIDAR DATA AND GPS SURVEY POINTS COLLECTED SEP 19, 2016.
2. BATHYMETRY IS FROM NOAA MULTI-BEAM SURVEY 2009.

PURPOSE: RESTORE ERODING BANK AND PROTECT MULTIPLE UPLAND PROPERTIES

DATUM: CRD

ADJACENT PROPERTY OWNERS:

APPLICATION BY: WAHIAKUM CO. PUBLIC WORKS

CAPE HORN SITE SAND PLACEMENT

SITE PLAN 1

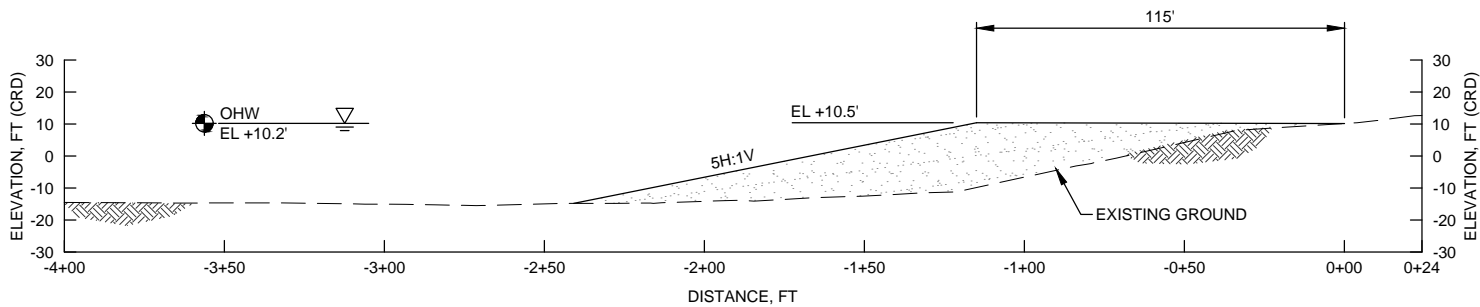
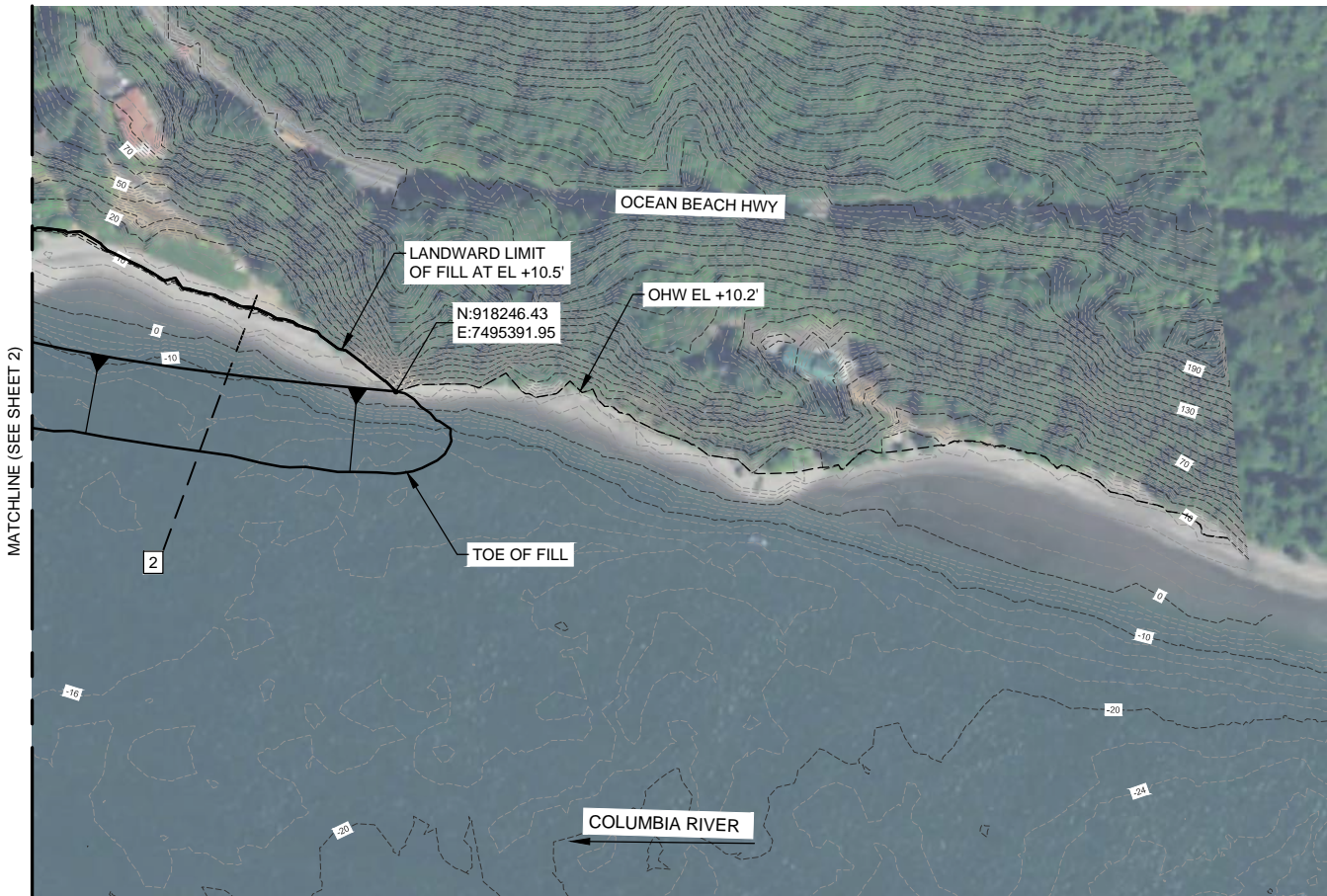
PROPOSED: PLACE DREDGED RIVER SAND AT ERODED BANK (150,450 CY)

IN: COLUMBIA RIVER

AT: RIVER MILE 47.5

COUNTY: WAHIAKUM **USACE REF:**

DATE: 8/1/18



SECTION 2



- LEGEND**
- EXISTING GROUND
 - PROPOSED SAND PLACEMENT

- NOTES**
1. UPLAND TOPOGRAPHY GENERATED FROM JAN/FEB 2005 LIDAR DATA AND GPS SURVEY POINTS COLLECTED SEP 19, 2016.
 2. BATHYMETRY IS FROM NOAA MULTI-BEAM SURVEY 2009.

NWS-2016-1117
Date: 8/1/2018
Sheet 19 of 21

WATER LEVELS, FT. (CRD)	
ORDINARY HIGH WATER (OHW)	10.2

PURPOSE: RESTORE ERODING BANK AND PROTECT MULTIPLE UPLAND PROPERTIES

DATUM: CRD
ADJACENT PROPERTY OWNERS:

APPLICATION BY: WAHIAKUM CO. PUBLIC WORKS

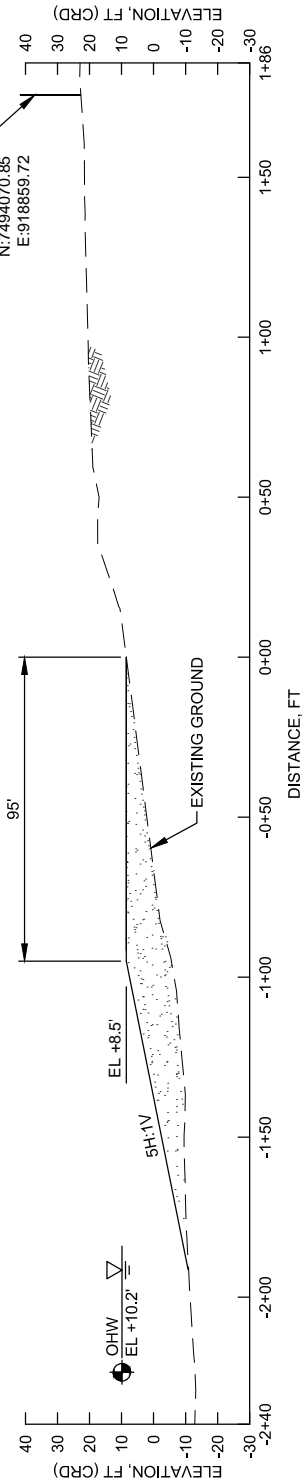
CAPE HORN SITE SAND PLACEMENT

SITE PLAN 2

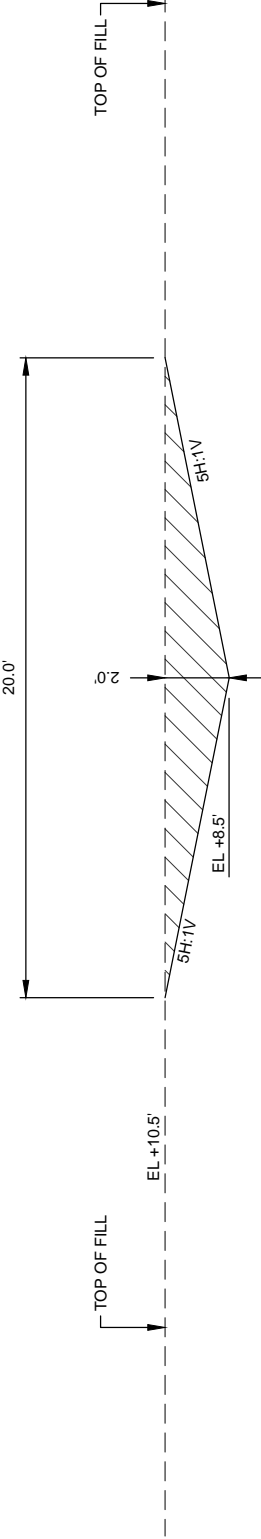
PROPOSED: PLACE DREDGED RIVER SAND AT ERODED BANK (150,450 CY)

IN: COLUMBIA RIVER
AT: RIVER MILE 47.5
COUNTY: WAHIAKUM **USACE REF:**

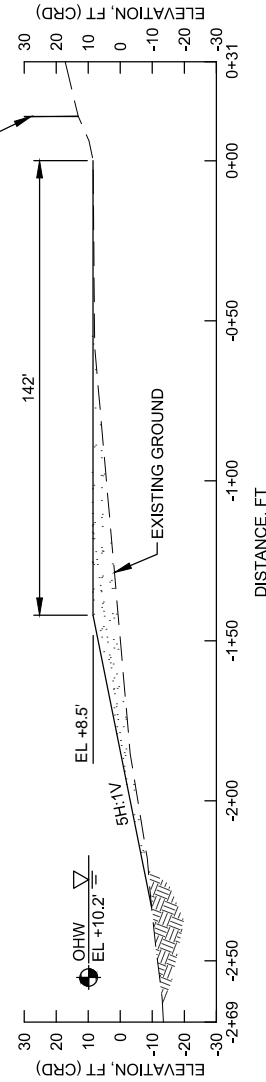
DATE: 8/1/18



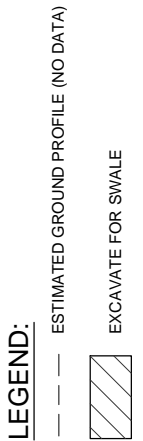
SECTION 3
ALONG SWALE CENTERLINE
SCALE IN FEET



SECTION 4
TYPICAL STORMWATER CONVEYANCE SWALE
SCALE IN FEET



SECTION 5
ALONG SWALE CENTERLINE
SCALE IN FEET



FILE: C:\pwworking\hmm\ports_harbors\mor69830\dms28279\367004_Cape_Horn_Stormwater.dwg

PURPOSE: RESTORE ERODING BANK AND PROTECT MULTIPLE UPLAND PROPERTIES

DATUM: CRD
ADJACENT PROPERTY OWNERS:

APPLICATION BY: WAHKIAKUM CO. PUBLIC WORKS

NWS-2016-1117
Date: 8/1/2018
Sheet 20 of 21

CAPE HORN SITE SAND PLACEMENT

STORMWATER CONVEYANCE SWALE SECTION

PROPOSED: PLACE DREDGED RIVER SAND AT ERODED BANK (150,450 CY)

IN: COLUMBIA RIVER
AT: RIVER MILE 47.5
COUNTY: WAHKIAKUM

USACE REF:

DATE: 8/1/18



PARCEL NUMBER	PROPERTY OWNER(S)	MAILING ADDRESS
270805110004	John & Glenda Polwarth Trust	1316 E State Route 4, Cathlamet, WA 98612
270805220001	Joan Harvey-Chester & Richard Erickson	48 Little Cape Horn Rd, Cathlamet, WA 98612
270805220002	Dane & Bertha Moseson Trust	1728 NE Stanton, Portland, OR 97212
270805220004	Ronald Milloy & Sandra Meng	PO Box 444, Cathlamet, WA 98612
270805220005	James Conrod ET UX	12 W Cape Horn Rd, Cathlamet, WA 98612
270805220006	Robert & Cathy Gawith	2 Little Cape Horn Rd, Cathlamet, WA 98612
270805220007	Sandra Davis	1244 E State Route 4, Cathlamet, WA 98612
270805220008	Brad & Connie Grambo	3419 N Spyglass Drive, Florence, AZ
270805220010	Lester Paul & Shirley Toney Jr.	32 Little Cape Horn, Cathlamet, WA 98612
270805220011	James & Mary Ann Bennett	1242 E State Route 4, Cathlamet, WA 98612
270805220012	Sandra Davis	1244 E State Route 4, Cathlamet, WA 98612
270805220014	Joan Harvey-Chester & Richard Erickson	48 Little Cape Horn Rd, Cathlamet, WA 98612
280805110001	Charles & Deborah Lincoln	2 W Cape Horn, Cathlamet, WA 98612
280805110003	Paul Schneider	22 Flandersville Rd, Cathlamet, WA 98612
280805110004	Paul Schneider	22 Flandersville Rd, Cathlamet, WA 98612
280805110010	Shroyer Family Trust	10 W Cape Horn, Cathlamet, WA 98612
280805110013	Dorothy Terhaar	16 W Cape Horn, Cathlamet, WA 98612

NWS-2016-1117
 Date: 8/1/2018
 Sheet 21 of 21

PURPOSE: RESTORE ERODING BANK AND PROTECT MULTIPLE UPLAND PROPERTIES

DATUM: CRD

ADJACENT PROPERTY OWNERS:

APPLICATION BY: WAHAKIACUM CO. PUBLIC WORKS

CAPE HORN SITE SAND PLACEMENT

PARCELS

PROPOSED: PLACE DREDGED RIVER SAND AT ERODED BANK (150,450 CY)

IN: COLUMBIA RIVER

AT: RIVER MILE 47.5

COUNTY: WAHAKIACUM **USACE REF:**

DATE: 8/1/18