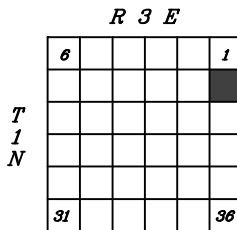


45.5885° Latitude
-122.3901° Longitude

LOCATION MAP



NOTE:
USGS topographic quadrangle map reproduced using
MAPTECH Inc., Terrain Navigator Pro software.

PROJECT VICINITY MAP



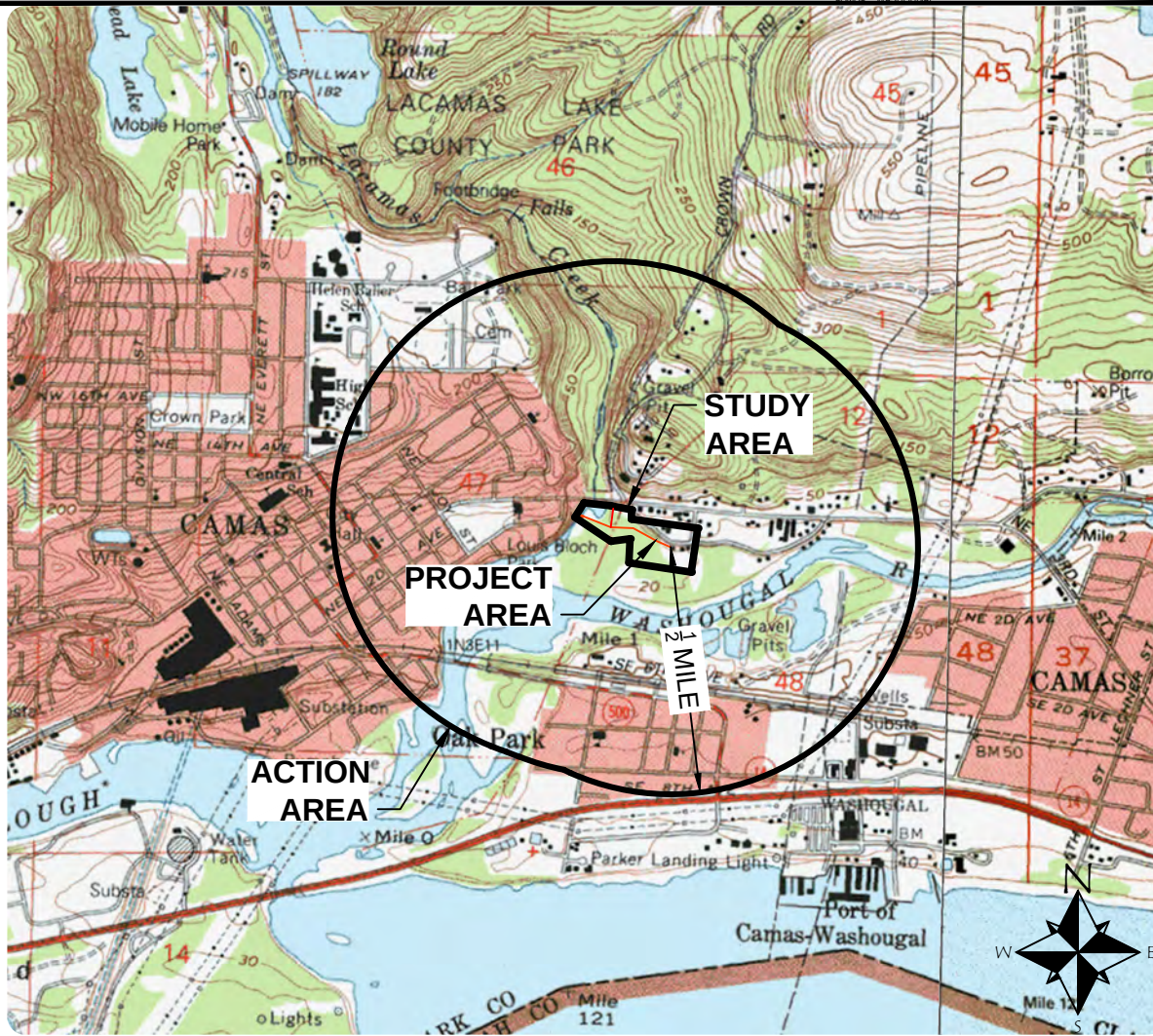
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SCALE IN MILES

PROPOSED: In-water infrastructure
removal
IN Lacamas Creek
NEAR: Camas
COUNTY: Clark
STATE: WA
SHEET 1 OF 9
DATE: 11/1/18

VICINITY MAP AND ACTION AREA
APPLICANT: Wallis Engineering
PROJECT NAME: Lacamas Creek Sewer Pump Station
REFERENCE #: Not Yet Assigned
SITE LOCATION ADDRESS:

PURPOSE: Construct new pump station
and replace pipeline elsewhere
DATUM: NAD83
ADJACENT PROPERTY OWNERS:

1157 3rd Ave., Suite 220A
Longview, WA 98632
Phone: (360) 578-1371



4000
2000
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SCALE IN FEET



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PURPOSE: Construct new pump station and replace pipeline elsewhere	EXISTING CONDITIONS	PROPOSED: In-water infrastructure removal
DATUM: NAD83	APPLICANT: Wallis Engineering	IN Lacamas Creek
ADJACENT PROPERTY OWNERS:	PROJECT NAME: Lacamas Creek Sewer Pump Station	NEAR: Camas
	REFERENCE #: Not Yet Assigned	COUNTY: Clark
	SITE LOCATION ADDRESS:	STATE: WA
		SHEET 2 OF 9
		DATE: 11/1/18
		NWS-2018-907

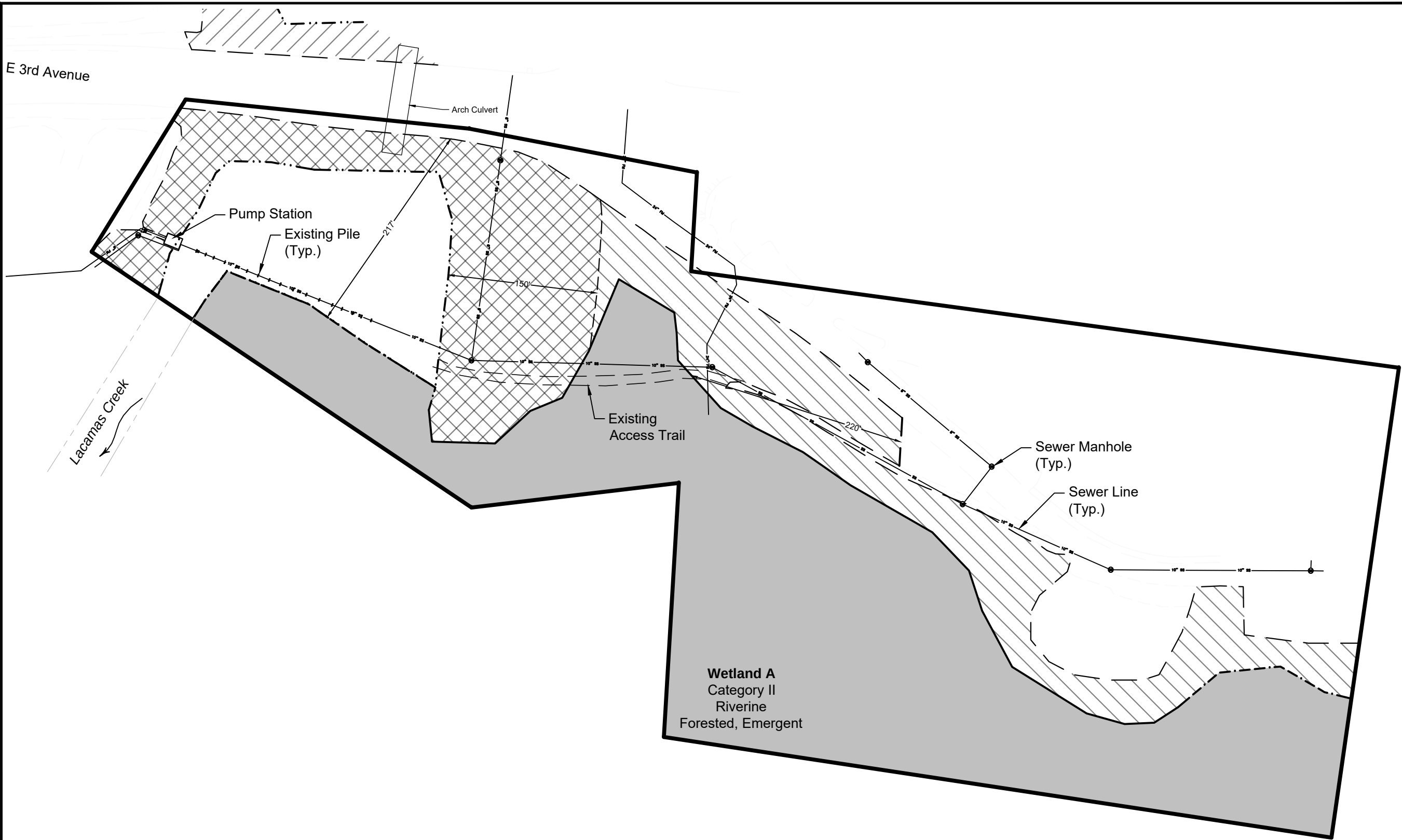
1157 3rd Ave., Suite 220A
Longview, WA 98632
Phone: (360) 578-1371

Ecological Land Services

SCALE IN FEET

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LEGEND:

- Study Area Boundary
- Wetland
- Approximate Wetland Boundary

LEGEND (cont.):

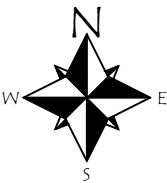
- OHWM
- Functionally Isolated Buffer
- Stream Buffer

LEGEND (cont.):

- Wetland Buffer
- Existing Edge of Pavement/Gravel

NOTE(S):

1. OHWM and wetland boundary flagged by ELS, Inc. biologists and surveyed by KC Development, July, 2018.



NWS-2018-907



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PURPOSE: Construct new pump station and replace pipeline elsewhere

DATUM: NAD83

ADJACENT PROPERTY OWNERS:

EXISTING CONDITIONS NO AERIAL

APPLICANT: Wallis Engineering

PROJECT NAME: Lacamas Creek Sewer Pump Station

REFERENCE #: Not Yet Assigned

SITE LOCATION ADDRESS:

PROPOSED: In-water infrastructure removal

IN Lacamas Creek

NEAR: Camas

COUNTY: Clark

STATE: WA

SHEET 3 OF 9

DATE: 11/1/18

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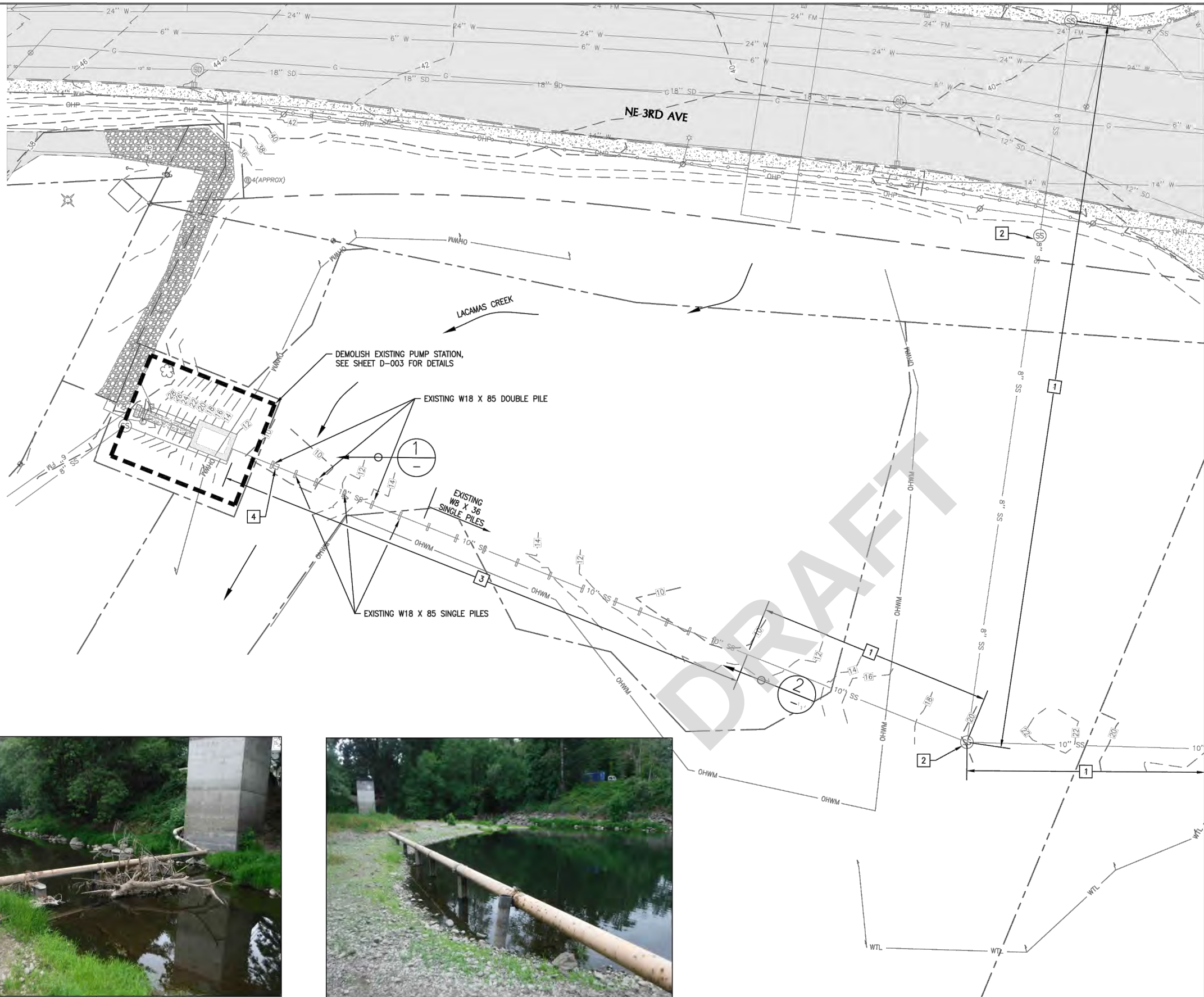
0 100 200
SCALE IN FEET



1
-
PHOTO 1



2
-
PHOTO 2



DEMOLITION NOTES

- 1 ABANDON PIPE IN PLACE AND FILL WITH GROUT.
- 2 ABANDON MANHOLE. REMOVE TOP CONE. FILL MH WITH GRAVEL AND BACKFILL EXCAVATION.
- 3 REMOVE PIPE SUPPORTS
- 4 REMOVE 2' X 2' X 7' CONCRETE PIPE PIER.

CONSTRUCTION NOTES

1. PREVENT ALL DEBRIS, DUST, AND MATERIALS FROM ENTERING LACAMAS CREEK AND WETLAND AREAS.

SEE SHEET 6 FOR CONTINUATION

NOTE(S):
1. Figure by Wallis Engineering.

PROPOSED: In-water infrastructure removal
IN Lacamas Creek
NEAR: Camas
COUNTY: Clark
SHEET 5 OF 9
DATE: 11/1/18
STATE: WA

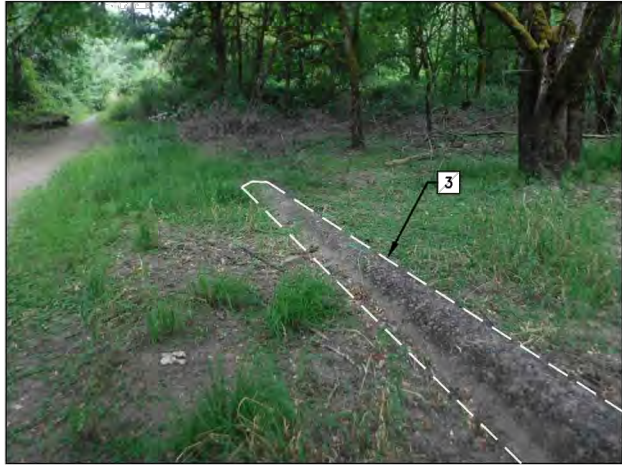
GRAVITY SEWER DEMOLITION PLAN I
APPLICANT: Wallis Engineering
PROJECT NAME: Lacamas Creek Sewer Pump Station
REFERENCE #: Not Yet Assigned
SITE LOCATION ADDRESS:

PURPOSE: Construct new pump station and replace pipeline elsewhere

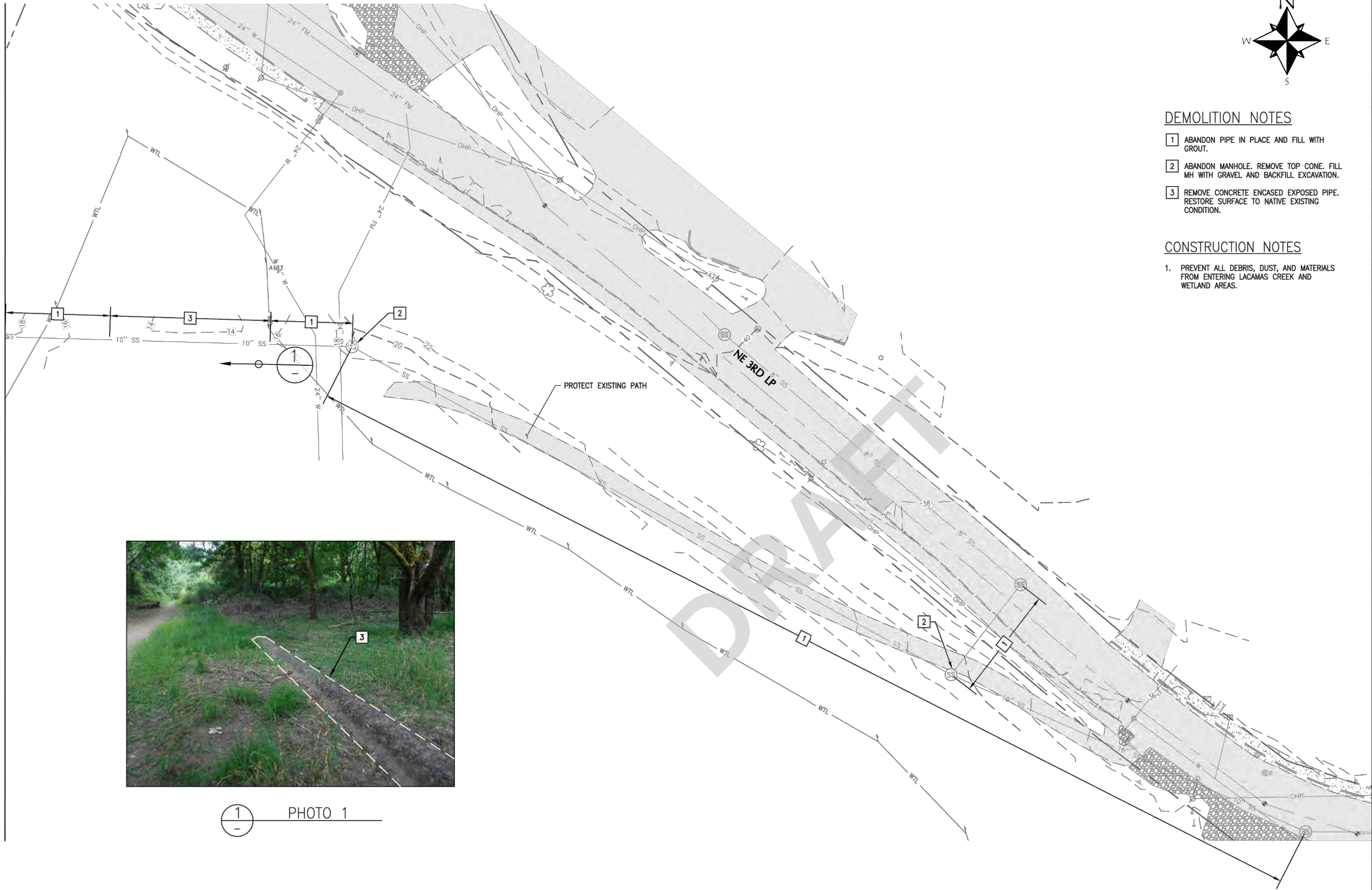
NOT TO SCALE
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Longview, WA 98632
Phone: (360) 578-1371



SEE SHEET 5 FOR CONTINUATION



1 PHOTO 1



DEMOLITION NOTES

- 1 ABANDON PIPE IN PLACE AND FILL WITH GROUT.
- 2 ABANDON MANHOLE. REMOVE TOP CONE. FILL MH WITH GRAVEL AND BACKFILL EXCAVATION.
- 3 REMOVE CONCRETE ENCASED EXPOSED PIPE. RESTORE SURFACE TO NATIVE EXISTING CONDITION.

CONSTRUCTION NOTES

1. PREVENT ALL DEBRIS, DUST, AND MATERIALS FROM ENTERING LACAMAS CREEK AND WETLAND AREAS.

NOTE(S):

1. Figure by Wallis Engineering.

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PURPOSE: Construct new pump station and replace pipeline elsewhere

DATUM: NAD83
ADJACENT PROPERTY OWNERS:

GRAVITY SEWER DEMOLITION PLAN II

APPLICANT: Wallis Engineering
PROJECT NAME: Lacamas Creek Sewer Pump Station
REFERENCE #: Not Yet Assigned
SITE LOCATION ADDRESS:

PROPOSED: In-water infrastructure removal
IN Lacamas Creek

NEAR: Camas

COUNTY: Clark

SHEET 6 **OF** 9
DATE: 11/1/18

STATE: WA



1 PHOTO 1



2 PHOTO 2

NOTE(S):
1. Figure by Wallis Engineering.

DEMOLITION NOTES

- 1 REMOVE REINFORCED CONCRETE WETWELL/DRYWELL AND CONCRETE BLOCK HOUSING STRUCTURE.
- 2 REMOVE ALL ELECTRICAL, MECHANICAL, AND STRUCTURAL EQUIPMENT WITHIN STRUCTURE. SALVAGE EQUIPMENT TO CITY AS SPECIFIED.
- 3 REMOVE REINFORCED CONCRETE ELEVATED WALKWAY, STEPS, AND FOOTING.
- 4 REMOVE GRAVITY SEWER PIPE FROM MANHOLE TO WETWELL.
- 5 REMOVE 6-INCH AC FORCE MAIN FROM DRYWELL TO THE TOP OF BANK.
- 6 COORDINATE WITH NW NATURAL FOR ABANDONMENT OF GAS SERVICE.
- 7 ABANDON EXISTING 6" AC FORCE MAIN IN-PLACE FROM TOP OF BANK TO DISCHARGE MANHOLE. FILL WITH GROUT

CONSTRUCTION NOTES

1. PREVENT ALL DEBRIS, DUST, AND MATERIALS FROM ENTERING LACAMAS CREEK AND WETLAND AREAS.
2. ITEMS TO BE SALVAGED TO CITY:
 - GENERATOR
 - PUMPS AND ACCESSORIES
 - STEEL SPIRAL STAIRWAY
 - ELECTRIC HOIST AND BEAM
 - PHASE LOSS MONITOR
3. RESTORE DISTURBED AREA. SEE PLANTING PLAN ON SHEET L-XXX.



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PURPOSE: Construct new pump station and replace pipeline elsewhere

DATUM: NAD83

ADJACENT PROPERTY OWNERS:

APPLICANT: Wallis Engineering

PROJECT NAME: Lacamas Creek Sewer Pump Station

REFERENCE #: Not Yet Assigned

SITE LOCATION ADDRESS:

PROPOSED: In-water infrastructure removal

IN Lacamas Creek

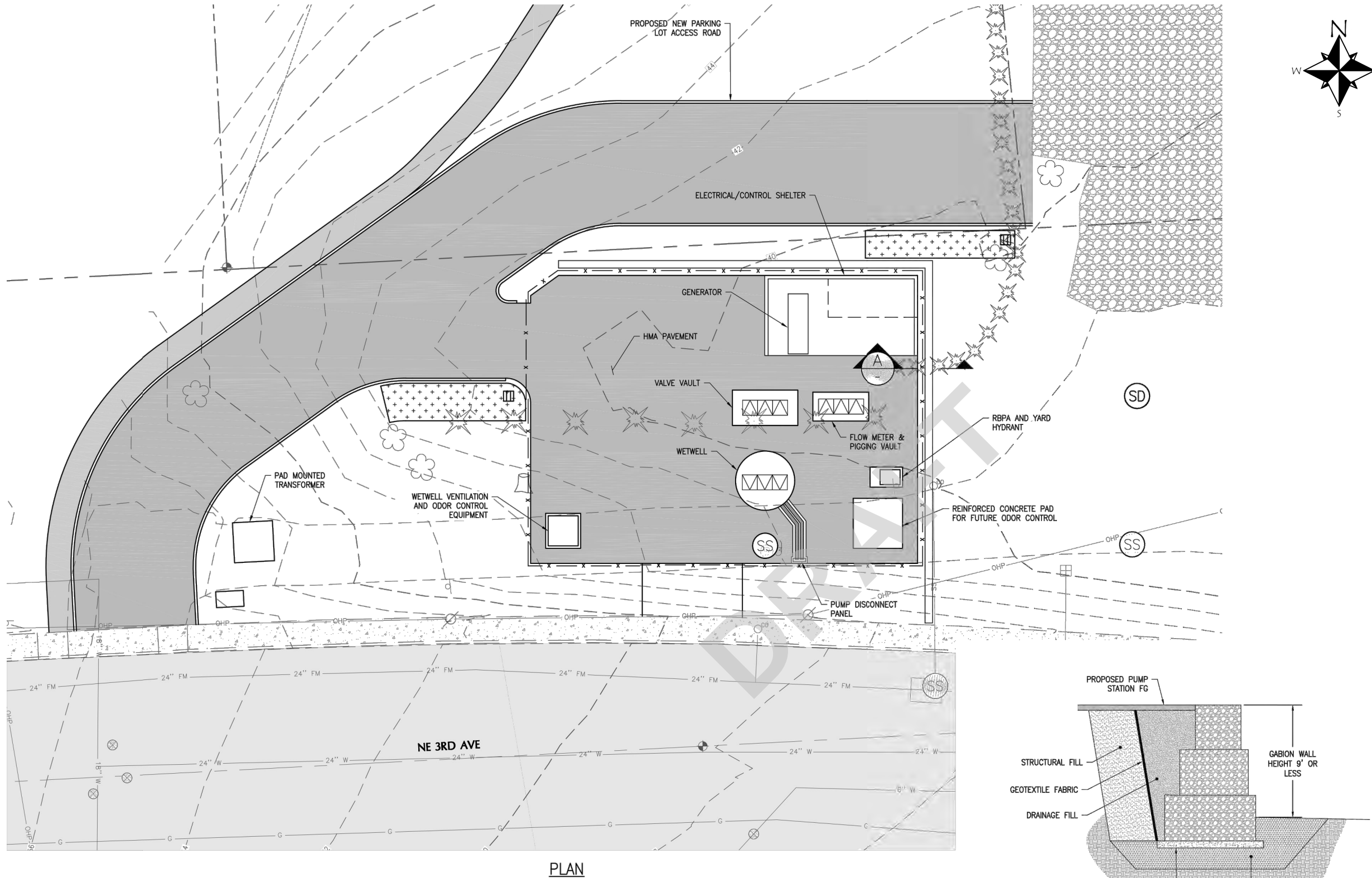
NEAR: Camas

COUNTY: Clark

STATE: WA

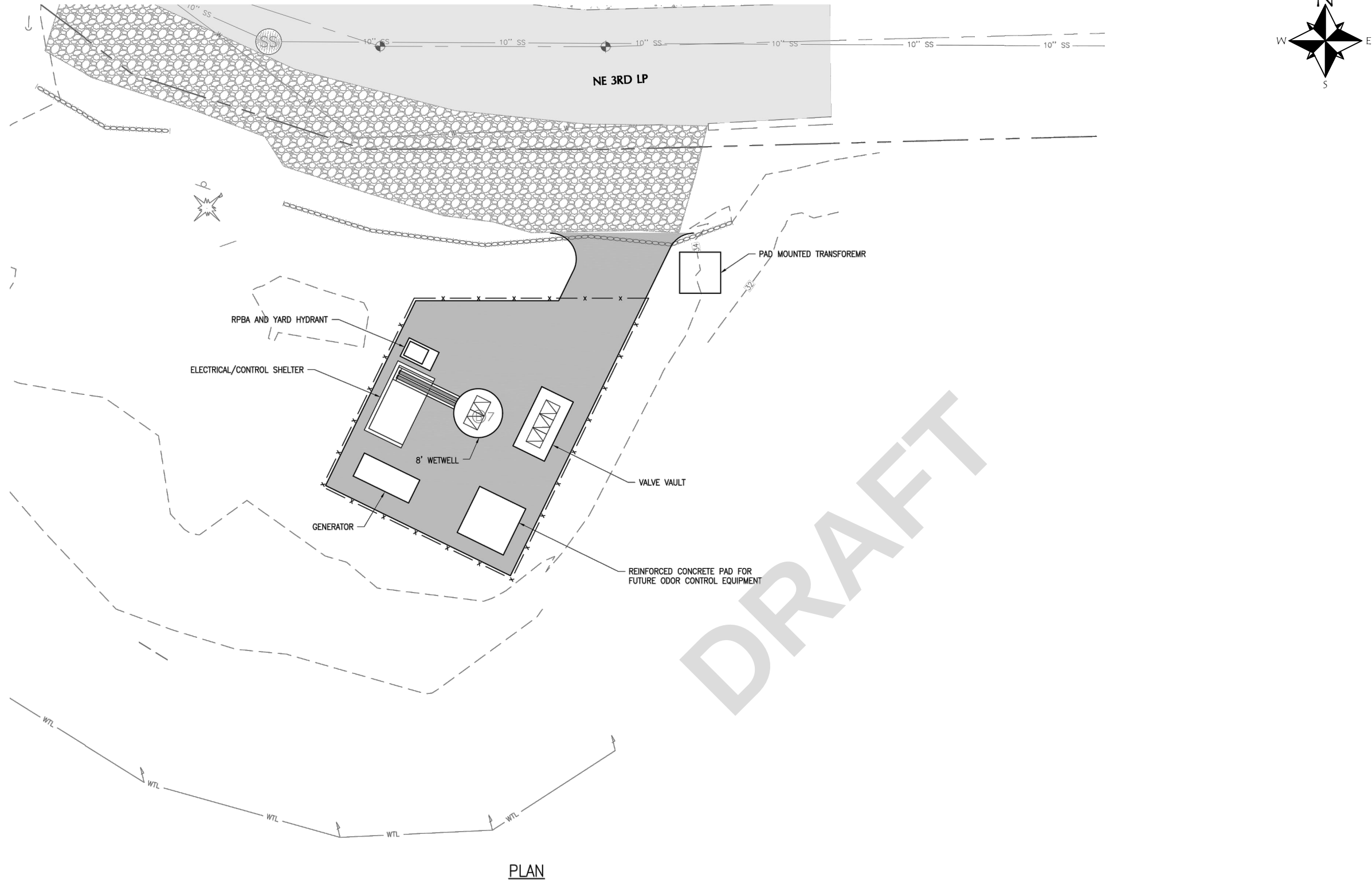
SHEET 7 **OF** 9

DATE: 11/1/18



NOTE(S):
1. Figure by Wallis Engineering.

PROPOSED: In-water infrastructure removal	LACAMAS CREEK PUMP STATION CIVIL SITE PLAN	PURPOSE: Construct new pump station and replace pipeline elsewhere
IN Lacamas Creek	APPLICANT: Wallis Engineering	DATE: NAD83
NEAR: Camas	PROJECT NAME: Lacamas Creek Sewer Pump Station	ADJACENT PROPERTY OWNERS:
COUNTY: Clark	REFERENCE #: Not Yet Assigned	NOT TO SCALE
SHEET 8 OF 9	SITE LOCATION ADDRESS:	1157 3rd Ave., Suite 220A Longview, WA 98632 Phone: (360) 578-1371
DATE: 11/1/18		Ecological Land Services



NOTE(S):
1. Figure by Wallis Engineering.

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PURPOSE: Construct new pump station
and replace pipeline elsewhere
DATUM: NAD83
ADJACENT PROPERTY OWNERS:

BAZ PARK PUMP STATION CIVIL SITE PLAN
APPLICANT: Wallis Engineering
PROJECT NAME: Lacamas Creek Sewer Pump Station
REFERENCE #: Not Yet Assigned
SITE LOCATION ADDRESS:

PROPOSED: In-water infrastructure
removal
IN Lacamas Creek
NEAR: Camas
COUNTY: Clark
SHEET 9 **OF** 9
STATE: WA
DATE: 11/1/18