

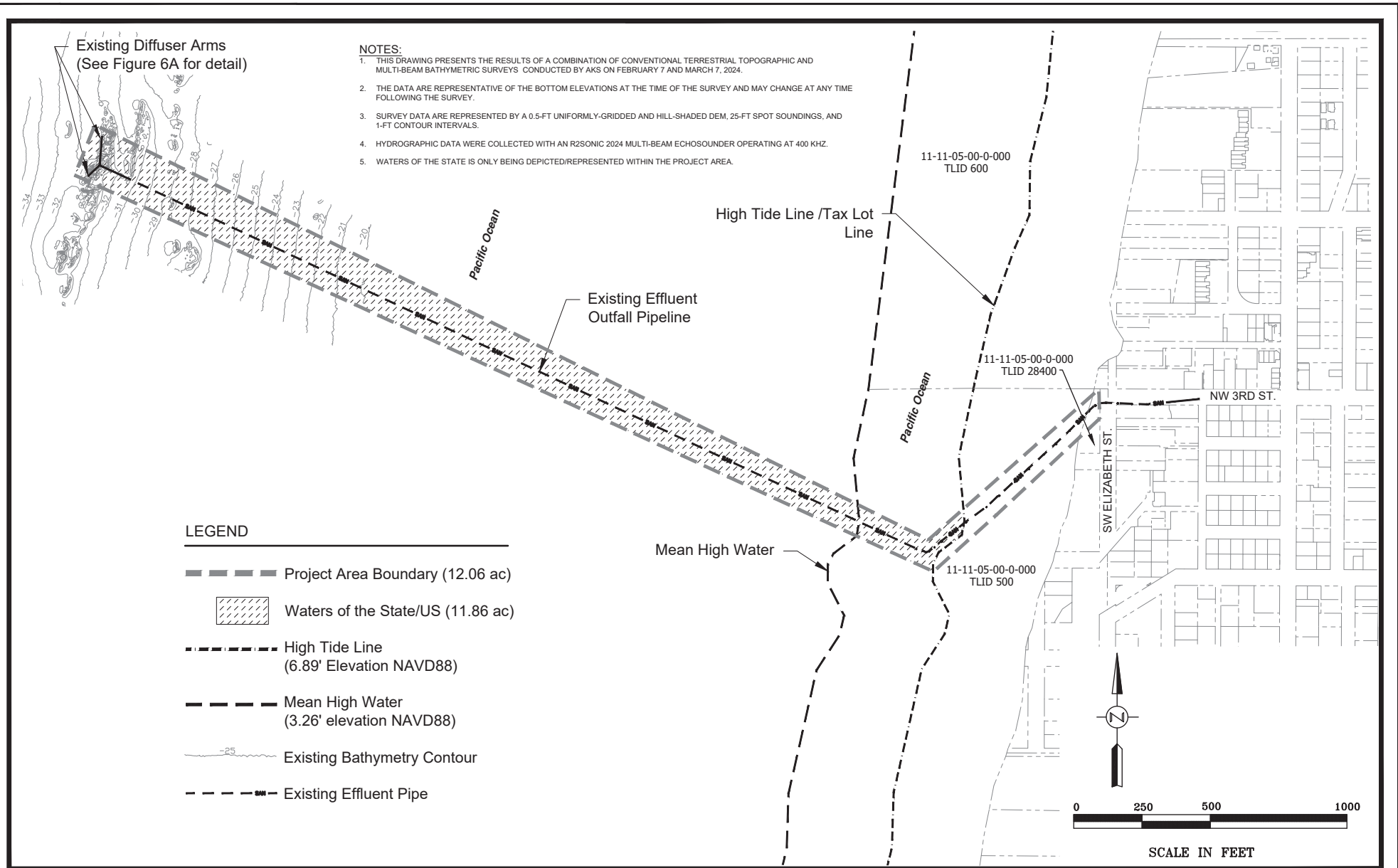
Project #7912
4/30/2024



Pacific Habitat Services, Inc.
9450 SW Commerce Circle, Suite 180
Wilsonville, OR 97070

General Location and Topography
Toledo Mill Effluent Ocean Outfall Repair - Lincoln County, Oregon
United States Geological Survey (USGS) Gladstone, Oregon 7.5 quadrangle, 2020
(viewer.nationalmap.gov/basic)

FIGURE
1

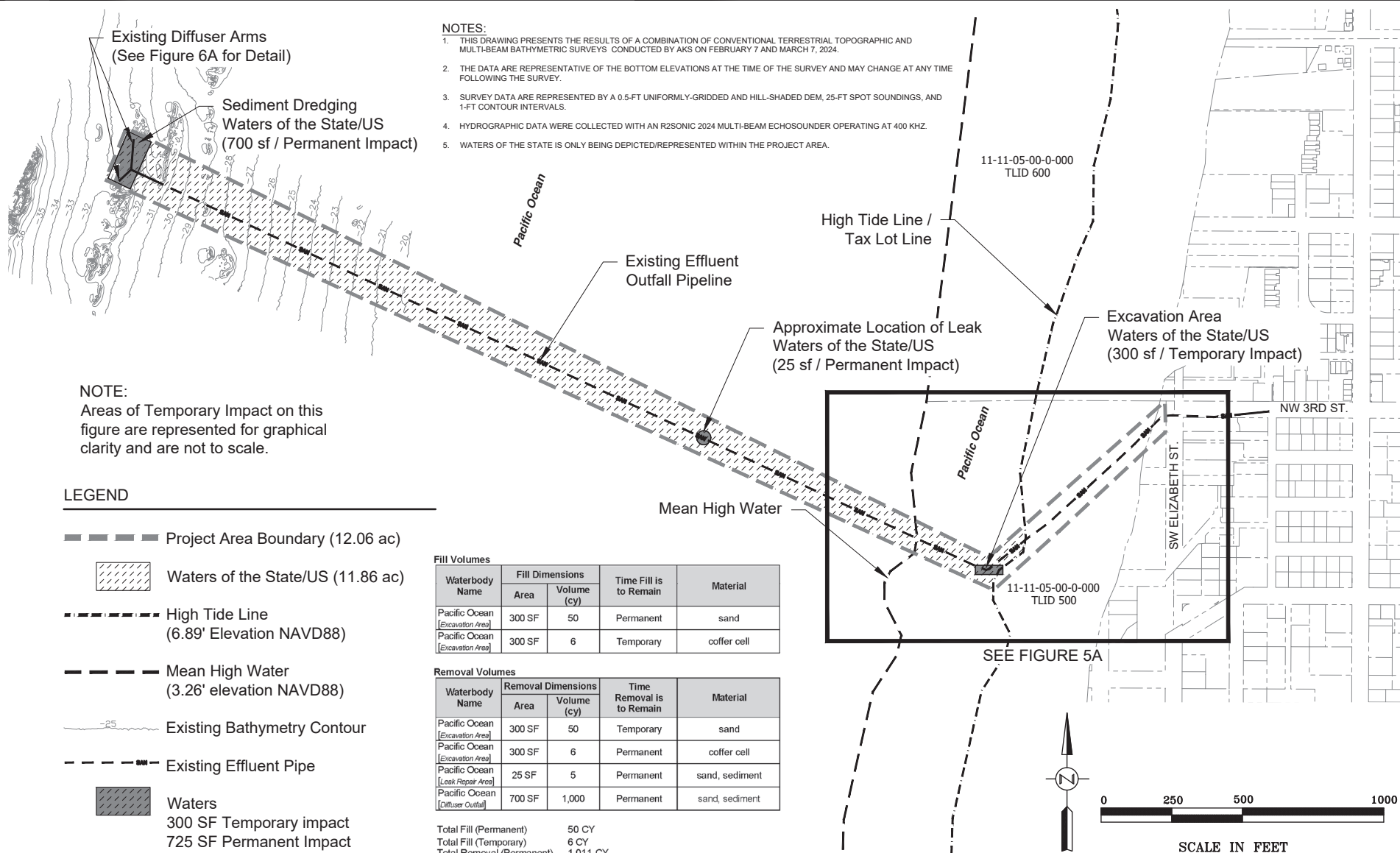


Surveys provided by AKS Engineering and are based on based on construction or survey documents; no accuracy is specified. These figures are not intended for use in construction and only for representation of relative areas where work and access to the site is to occur.

Existing Conditions
Toledo Mill Effluent Ocean Outfall Repair - Lincoln County, Oregon

FIGURE
4

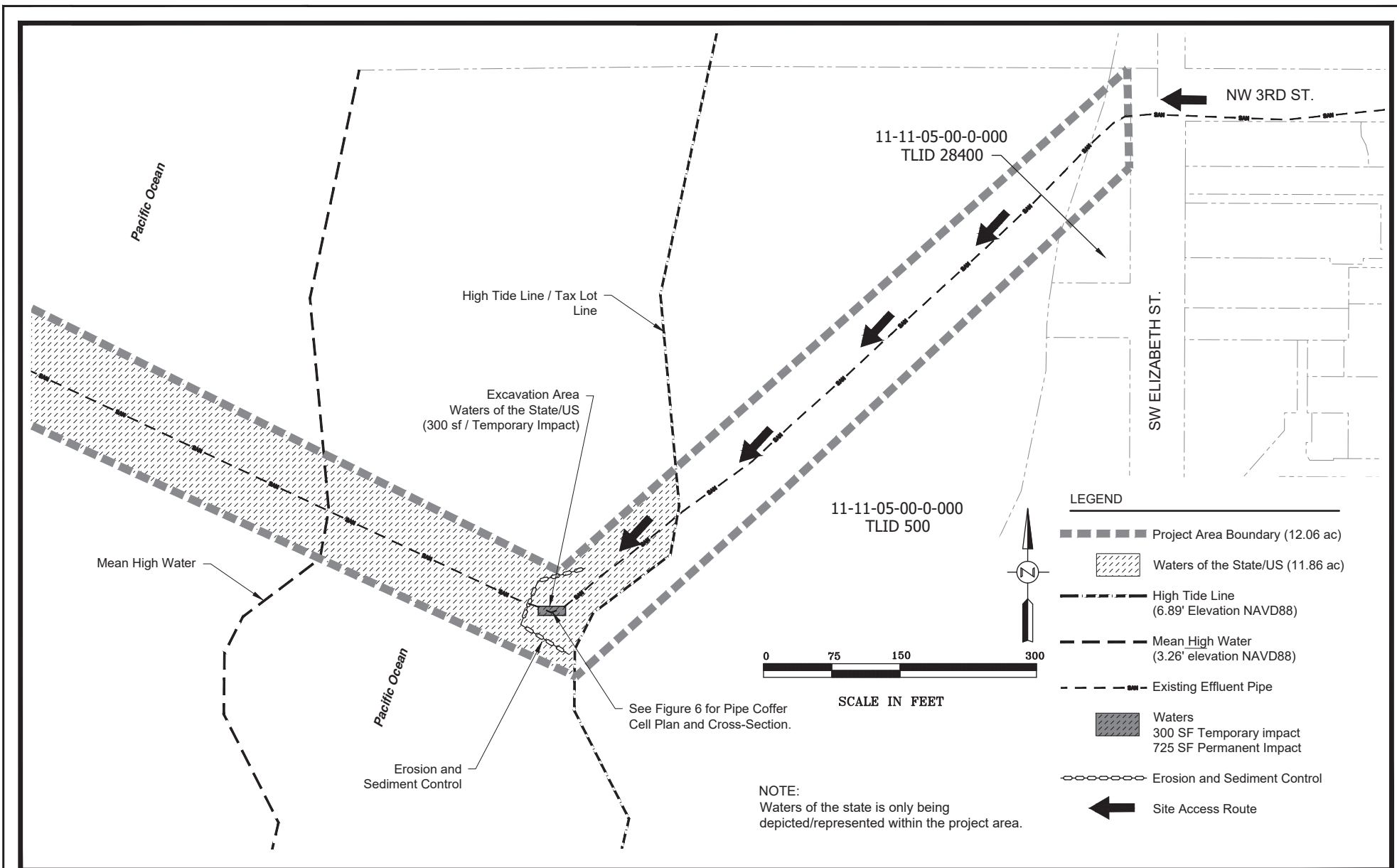
5-21-2024



Fill Volumes				
Waterbody Name	Fill Dimensions		Time Fill Is to Remain	Material
	Area	Volume (cy)		
Pacific Ocean [Excavation Area]	300 SF	50	Permanent	sand
Pacific Ocean [Excavation Area]	300 SF	6	Temporary	coffer cell

Removal Volumes				
Waterbody Name	Removal Dimensions		Time Removal Is to Remain	Material
	Area	Volume (cy)		
Pacific Ocean [Excavation Area]	300 SF	50	Temporary	sand
Pacific Ocean [Excavation Area]	300 SF	6	Permanent	coffer cell
Pacific Ocean [Leak Repair Area]	25 SF	5	Permanent	sand, sediment
Pacific Ocean [Diffuser Outfall]	700 SF	1,000	Permanent	sand, sediment

Total Fill (Permanent) 50 CY
 Total Fill (Temporary) 6 CY
 Total Removal (Permanent) 1,011 CY
 Total Removal (Temporary) 50 CY

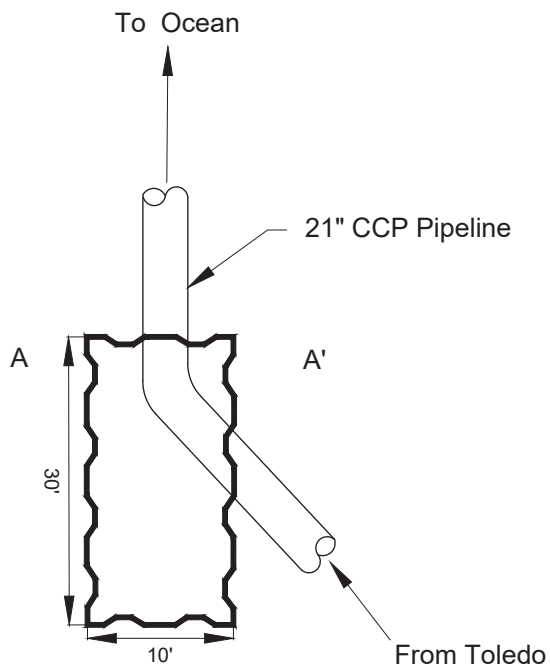


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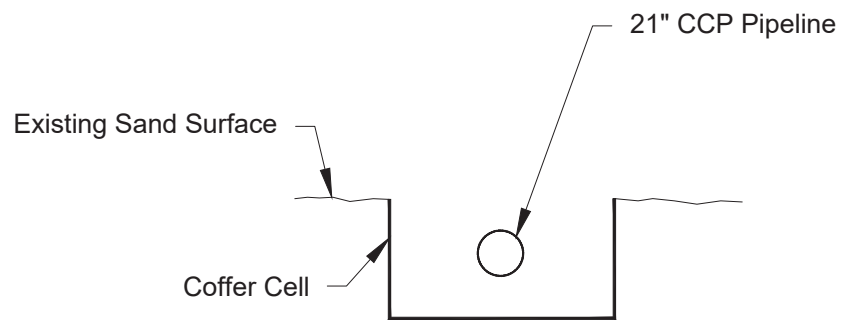
Site Plan, Erosion Control, and Cross Section Location
Toledo Mill Effluent Ocean Outfall Repair - Lincoln County, Oregon

FIGURE
5A

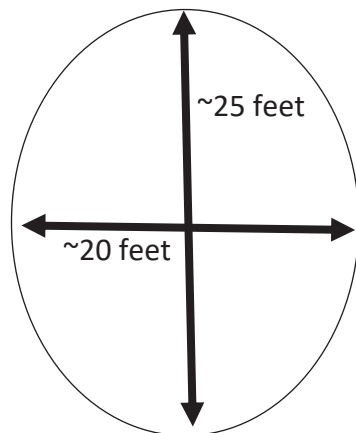
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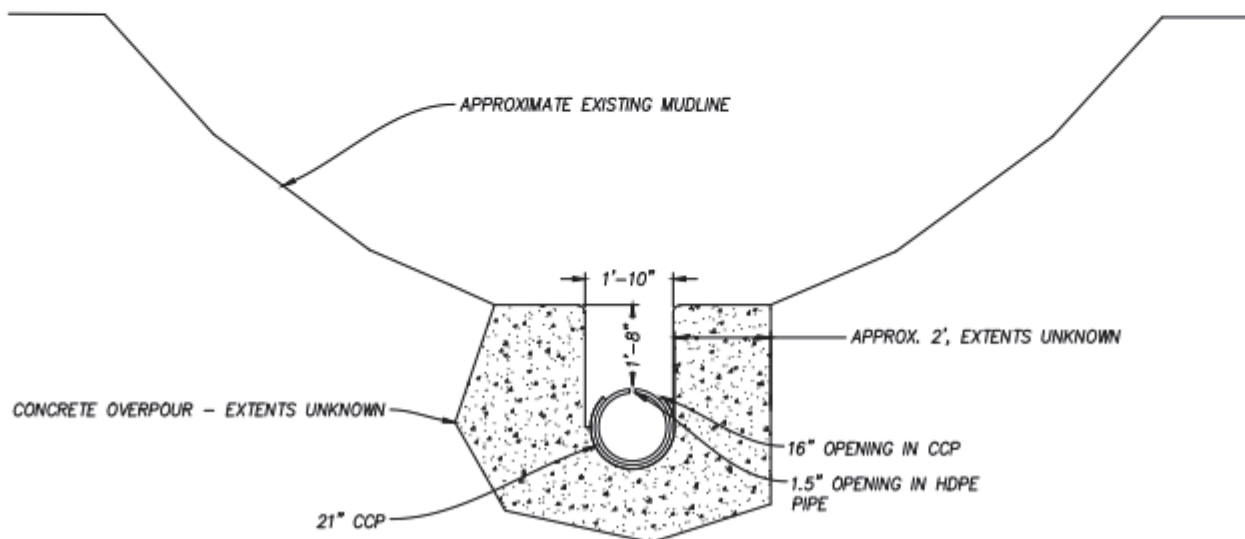
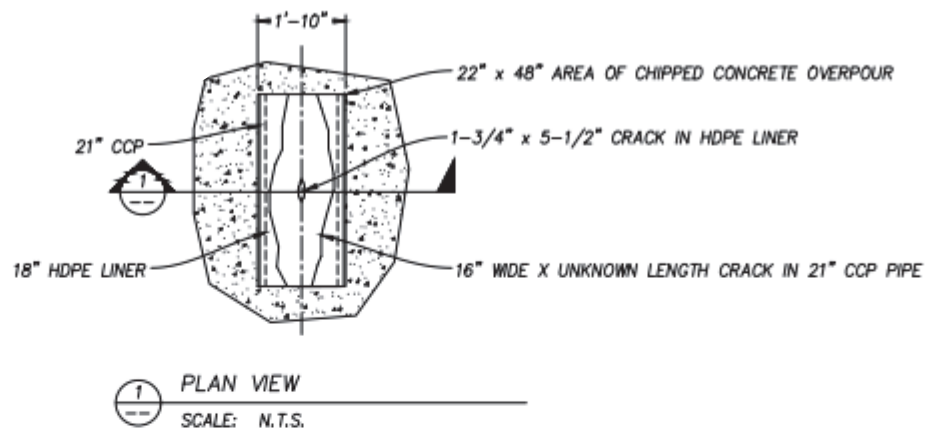
Temporary Coffe Cell - Plan View
Not to Scale



Cross Section A-A'
Not to Scale



Approx disposal location



Project# 7912
Date: 8/22/2024



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Pipeline Repair Details
Effluent Outfall Repair - Georgia Pacific Toledo, LLC

FIGURE
B

