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Technical Memorandum

To: **Enterprise Holdings, Momentum Civil** **File Number: 2611.0001**

From: **Jon Pickett, Soundview Consultants LLC** **Date: July 13, 2023**

Re: **Wetland, Fish, and Wildlife Habitat, and Shoreline Habitat Management Plan**
Enterprise Rent-A-Car – 621 River Road, Puyallup, Washington 98371

Dear Enterprise Holdings,

Soundview Consultants LLC (SVC) conducted a shoreline, wetland, and fish and wildlife habitat assessment of an approximately 10.66-acre site located at 621 River Road within the City of Puyallup, Pierce County, Washington (Figure 1). The subject property consists of one parcel situated in the Southeast ¼ of Section 21, Township 20 North, Range 4 East, W.M. (Pierce County Tax Parcel Number 0420214051). SVC investigated the site to evaluate if any potentially regulated wetlands, streams, shorelines, or other fish and wildlife habitat conservation areas are located on or adjacent to the subject property to support commercial development. This Technical Memorandum documents the results of the assessment; an Existing Conditions Map in Attachment A depicts these findings.

Figure 1. Subject Property Location.

Project Description

The site is currently in use as a commercial development. The Applicant proposes to redevelop the western portion of the site (identified as "Area of Investigation" on Figure 1 above) with an Enterprise Rent-A-Car in approximately the same footprint as the existing use. .

Background Data

Prior to the site investigation, SVC staff conducted background research using the Pierce County GIS data, City of Puyallup GIS data, the U.S Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) and Information for Planning and Consultation (IPaC), Washington Department of Natural Resources (DNR) stream typing map, Washington Department of Fish and Wildlife (WDFW) Priority Habitats and Species (PHS) database and WDFW and Northwest Indian Fisheries Commission (NWIFC) Statewide Washington Integrated Fish Distribution (SWIFD) database, and Natural Resource Conservation Service (NRCS) soil survey. All determinations were made using observable vegetation, hydrology, and soils in conjunction with data from the U.S. Geological Survey (USGS) topographic maps, USFWS, local precipitation data, and various orthophotographic resources. The subject property is located within the City of Puyallup, Pierce County, Washington; as such, all critical areas are regulated under the Puyallup Municipal Code (PMC) or Puyallup Shoreline Master Program (PSMP).

No potential critical areas are identified onsite by DNR Stream Typing map (Attachment B1), Puyallup Stream and Wetland Inventory (Attachment B2), Pierce County Stream and Wetland Inventory (Attachment B3), USFWS NWI map (Attachment B4), WDFW PHS Map (Attachment B5), or WDFW and NWIFC SWIFD map (Attachment B6). However, DNR Stream Typing map, and Puyallup Stream and Wetland Inventory, Pierce County Stream and Wetland Inventory, and USFWS NWI all identify the Puyallup River approximately 65 feet north of the subject property.

The WDFW and NWIFC SWIFD map (Attachment B6) identifies a documented presence of coho (*Oncorhynchus kisutch*), bull trout/dolly varden (*Salvelinus confluentus/S. malma),* spring and fall chinook (*Oncorhynchus tshawytscha)*, fall chum (*Oncorhynchus keta*), pink odd year (*Oncorhynchus gorbuscha*), resident coastal cutthroat (*Oncorhynchus clarki*), sockeye (*Oncorhynchus nerka*), and winter steelhead (*Oncorhynchus mykiss).* According to the USFWS IPaC mapping databased, marbled murrelet (*Brachyramphus marmoratus*), streak horned lark (*Eremophila alpestris strigata)*, yellow-billed cuckoo (*Coccyzus americanus*), bull trout*,* and Taylor's Checkerspot (*Euphydryas editha taylori*) have the potential to occur within 300 feet of the subject property. WDFW PHS map also identifies the occurrence of coho, bull trout/dolly varden, chinook, chum, pink salmon, resident coastal cutthroat, sockeye, and steelhead within the Puyallup River approximately 65 feet north of the subject property.

In addition, the subject property is partially located within the 100-year floodplain (Attachment B7). No other wetlands, streams, or priority habitats were identified in mapping on or within 300 feet of the subject property.

The NRCS soil map (Attachment B8) identifies two soil series on the subject property: Pilchuck fine sand and Puyallup fine sandy loam. Pilchuck fine sand is listed as partially hydric, and may contain up to 10 percent hydric inclusions of Aquic Xerofluvents soils. Puyallup fine sandy loam is listed as partially hydric, and may contain up to 2 percent hydric inclusions of undrained Briscott soils.

Methods

A formal site investigation was performed by qualified SVC staff in June of 2023. The investigation consisted of a walk-through survey of the subject property and any publicly accessible areas within 300 feet of this area for potentially regulated shorelines, wetlands, streams, and priority habitat and/or species as specified in Puyallup Municipal Code Chapter 21.06 - "Critical Areas" and Puyallup Shoreline Master Program (PSMP).

Ordinary high water (OHW) mark determinations were made using Washington State Department of Ecology's (WSDOE's) method as detailed in *Determining the Ordinary High Water Mark for Shoreline Management Act Compliance in Washington State* (Anderson et al., 2016) and the definitions established in the Revised Code of Washington (RCW) 90.58.030(2)(b) and Washington Administrative Code (WAC) 173-22-030(11). To mark the centerline or banks of potentially-regulated streams, blue surveyor's flagging was alpha-numerically labeled and tied to a 3-foot lath or vegetation. Given the steep and dangerous topography of portions of the shoreline as well as fencing, flagging was limited to the northwestern portion of the river, and the remainder of the shoreline was extrapolated utilizing topography and lidar data. Streams and surface water features were classified using the DNR water typing system as outlined in WAC 222-16-030 and the definitions established in PMC 21.06.1010.3.a.

The fish and wildlife habitat assessment was conducted during the same site visits by qualified fish and wildlife biologists. The experienced biologists made visual and auditory observations using stationary and walking survey methods for both aquatic and upland habitats noting any special habitat features and direct and indirect signs of fish and wildlife activity (e.g. nesting, foraging, and migration/movement). Special attention was given to assessing the presence of fish and wildlife habitat conservation areas outlined under PMC 21.06.1010.3.b.

Precipitation

Precipitation data was acquired from the National Oceanic and Atmospheric Administration (NOAA) station at Seattle-Tacoma International Airport in order to obtain percent of normal precipitation for the general Pierce County region during and preceding the investigations. A summary of data collected is provided in Table 1.

Table 1. Precipitation Summary[1]

Date	Day Of	Day Before	1 Week Prior	2 Weeks Prior	30 Days Prior (Observed/Normal)	Year to Date (Observed/Normal)[2]	Percent of Normal[3]
06/20/2023	0.42	0.01	0.80	1.22	1.23/1.68	29.57/35.77	73/83

Notes:

1. Precipitation levels provided in inches. Data obtained from NOAA (http://w2.weather.gov/climate/xmacis.php?wfo=sew) for Seattle-Tacoma International Airport.
2. Year-to-date precipitation is for the 2022/2023 water year from October 1 to the onsite dates.
3. Percent of normal is shown for the last 30 days and 2023 year to date.

Precipitation levels during the June 2023 site investigation were within the statistical normal range for the prior 30 days and for the 2022/2023 water year (73 and 83 percent of normal respectively). This precipitation data suggests that the site conditions were normal for this time of year at the time of the site investigation. Such conditions were considered in making professional wetland determinations.

Results

The 10.66-acre subject property is located in an urban commercial area and is currently developed with a commercial strip mall and associated parking lot, access roads, and infrastructure. The site abuts

a paved trail and the Puyallup River to the north, commercial development to the east and west, and River Road to the south. The Puyallup River is located approximately 65 feet north of the subject property, separated from the site by the paved trail. Topography onsite is relatively flat, generally sloping south to north, with elevations ranging from approximately 30 feet above mean sea level (amsl) to 25 feet amsl (Attachment B9).

No potentially regulated wetlands, streams, or fish and wildlife habitat was identified onsite. However, the site investigation identified the Puyallup River approximately 60 feet north of the subject property. No other potentially regulated wetlands, aquatic areas, and/or fish and wildlife habitat conservation areas were observed on or within 300 feet of the subject property. The identified critical areas are depicted on the Existing Conditions Exhibit in Attachment A. Photographs of site features and general conditions are included in Attachment C. A summary of the identified critical areas and regulation by different agencies is provided in the table below.

Upland Characterization

The majority of the subject property has been developed and vegetation is limited to the subject property boundaries. Vegetation onsite is dominated by planted shore pine (*Pinus contorta*) along the northern property line and non-native invasive Himalayan blackberry (*Rubus armeniacus*), English ivy (*Hedera helix*), and field bindweed (*Convolvulus arvensis*), as well as landscaped ornamental trees and grasses.

Puyallup River Shoreline

The ordinary high water line of the Puyallup River is located approximately 60 feet north of the subject property. The Puyallup River originates approximately 34 miles to the southeast from glaciers on Mount Rainier and flows west approximately 7.5 miles where it discharges into Commencement Bay.

The Puyallup River is approximately 200 feet wide on average in the vicinity of the site. The river was inundated and flowing during the site investigation. Little to no vegetation was visible waterward of OHW, and due to turbidity, the substrate within the river could not be observed. The shoreline featured steep, nearly vertical banks, approximately 15 feet high. Silty soils and large rock and pieces of concrete were observed along the OHW. Stream habitat in this reach of the river has been heavily modified and degraded by development and historical straightening of the channel.

Vegetation landward of OHW is dominated by a forested canopy of red alder (*Alnus rubra*) and black cottonwood (*Populus balsamifera*) with a shrub understory of oceanspray (*Holodiscus discolor*) and non-native invasive Himalayan blackberry. A paved walking trail is present approximately 10 to 30 feet landward of the OHW. Offsite shoreline areas in the vicinity of the subject property are similarly modified by the trail with limited native vegetation present along the OHWM.

The Puyallup River has a documented presence of coho, bull trout/dolly varden, spring and fall chinook, fall chum, pink odd year, resident coastal cutthroat, sockeye, and winter steelhead. Per Puyallup Municipal Code (PMC) 21.06.1010(3)(a), the Puyallup River is designated a Type I stream and a Type S water per WAC 222-16-030. Type I waters are regulated as "Shorelines of the State" pursuant to WAC 173-18-310 and the PSMP. Under the PSMP, effective March 1, 2023, the Puyallup River is considered a shoreline of the state, designated as Urban Conservancy.

Fish and Wildlife Conservation Areas

The WDFW and NWIFC SWIFD Map identifies a documented presence of coho, bull trout/dolly varden, spring and fall chinook, fall chum, pink odd year, resident coastal cutthroat, sockeye, and winter steelhead within the Puyallup River approximately 60 feet north of the subject property. WDFW PHS Map also identifies the occurrence of coho, bull trout/dolly varden, chinook, chum, pink salmon, resident coastal cutthroat, sockeye, and steelhead within the Puyallup River. National Marine Fisheries Service (NFMS) also identifies the river as critical habitat for chinook and steelhead. The Puyallup River provides suitable habitat for these species to occur, and while the Puyallup River is not located onsite, the shoreline jurisdiction extends onto the subject property.

According to the USFWS IPaC mapping database, marbled murrelet (*Brachyramphus marmoratus*), streak horned lark (*Eremophila alpestris strigata*), yellow-billed cuckoo (*Coccyzus americanus*), bull trout(*Salvelinus confluentus*), and Taylor's Checkerspot (*Euphydryas editha taylori*) have the potential to occur within 300 feet of the subject property.

Marbled murrelet that occurs in the state of Washington are year-round residents on coastal waters and primarily feed in waters within 500 feet of the shore out to 1.2 miles from shore at depths of less than one hundred feet. Potential suitable habitat typically consists of tree stands 5 or more acres in size composed of 60% or more conifer cover with minimum 15-inch diameter at breast height (DBH) with nesting platform trees. Nesting platform trees include "platform branches" that are a relatively flat surface at least four inches wide, at least 33 feet high in a coniferous tree, with cover from the live crown of the same tree or an adjacent tree (WSDOT, 2014). Due to the lack of suitable habitat on site, marbled murrelets are unlikely to occur on the subject property.

Yellow-billed cuckoo habitat consists of low to mid-level riparian forests dominated by cottonwoods and willows. Suitable habitat is approximately 100 to 198 acres and wider than 200 meters; marginal habitat is approximately 20 to 100 acres and 100 to 200 meters wide; and unsuitable habitat is smaller than approximately 37 acres and less than 100 meters wide (Wiles & Kalasz, 2017). The subject property contains unsuitable habitat and the yellow-billed cuckoo is unlikely to occur onsite or in the vicinity of the subject property.

Streaked horned lark are found primarily in prairie habitat or unvegetated to sparsely vegetated open habitats (Pearson & Anderson, 2015), in dune habitats along the coast of Washington; in prairies of western Washington and western Oregon; and on the sandy beaches and islands along the Columbia and Willamette Rivers (USFWS, 2019). Studies conducted by the USFWS indicate that sites used by larks are generally found in open (i.e., flat, treeless) landscapes 300 acres or more in size such as airports (USFWS, 2013). The majority of the subject property is developed and does not provide suitable habitat for the streak horned lark.

Bull trout have the most specific habitat requirements of salmonids. They require cold water temperatures, clean stream substrates for spawning and rearing, complex habitats including streams with riffles and deep pools, undercut banks and large logs, and they also rely on river, lake, and ocean habitats that connect to headwater streams for annual spawning and feeding migrations (Shellberg, 2002). In Washington, bull trout are typically found in major tributaries from the Cascades that flow into the Puget Sound as well as major tributaries for the Olympic Mountains that flow into the Hood Canal, Straight of Juan de Fuca, and the Pacific Ocean (USFWS, 2015). The subject property is located

in proximity to the Puyallup River which flows from the Cascade Mountains to the Puget Sound and is mapped as critical habitat for Bull Trout. As such, the presence of bull trout is likely within the Puyallup River.

Taylor's checkerspot butterfly is primarily found in open prairie and grass/oak woodland habitat (Potter, 2016). Taylor's checkerspot habitat is dependent upon food sources for larvae and nectar sources for adults. Due to the lack of open prairie and grass/oak woodland habitat, the subject property does not provide sufficient habitat to support Taylor's checkerspot butterfly.

Regulatory Considerations

Local Considerations

The regulated shoreline of the Puyallup River was identified approximately 60 feet offsite to the north of the subject property. Shorelines of the State are regulated under the PSMP (City of Puyallup, 2023) and PMC Chapter 21.06 – Critical Areas. Per PSMP Chapter 6.D, lands subject to shoreline jurisdiction include waters of the state and their associated shorelands. Waters of the state include, at a minimum, "*rivers and streams and their associated wetlands downstream from a point where the mean annual flow is 20 cubic feet per second or greater*". Shoreline jurisdiction includes "*shorelands and associated uplands extending 200 feet in all directions as measured on a horizontal plane from the ordinary high water mark; floodways and contiguous floodplain areas landward two hundred feet from such floodways; and all wetlands and river deltas associated with their streams, lakes, and tidal waters subject to the provisions of the Shoreline Management Act*". The river is located within designated FEMA floodway, and contiguous 100-year floodplain extends onto the majority of the site. As such, the shoreline jurisdiction of the Puyallup River extends 200 feet in all directions as measured on a horizontal plane from the ordinary high water mark, per the PSMP Chapter 6.D.2. Additionally, per PMC 21.06.1050(2)(a), Type I waters are subject to a 150-foot riparian buffer, and buildings and structures must be set back 10 feet from the edge of the critical area buffer per PMC 21.06.840(1).

As a regulated shoreline, Puyallup River is subject to shoreline environment designations that implement policies and regulated for proposed uses and developments. Per the Puyallup Shoreline Master Program Chapter 6.F, the Puyallup River is designated as Urban Conservancy, for the purpose of protecting and restoring ecological functions of open space, flood plain and other sensitive lands along the Puyallup River. Allowed uses within the Urban Conservancy shoreline designation include commercial and industrial development, as well as parking facilities when associated with an allowed use.

In its existing state, a corner of the existing building in the eastern portion of the site, as well as parking lot, access road, and the paved trail are located within the 200-foot shoreline management area. The proposed project includes the redevelopment of the existing building in the western portion of the site to support an Enterprise Rent-A-Car facility and associated infrastructure. Based on the allowed uses within the Puyallup River Urban Conservancy, the proposed development is allowed if it can achieve no net loss of ecological function. The proposed project will generally be located landward of the shoreline jurisdiction. However, one ramp and three guard posts are located within the outermost portion of the shoreline management zone. The Applicant proposes to demolish the ramp and guard posts, and replace it with an equally sized asphalt patch. As the asphalt patch will be the same size and located in the same position, there will be no net increase in impervious surface or footprint. Therefore, no shoreline or critical areas impacts are proposed, and no net loss of shoreline habitat is

anticipated, and the proposed project is in compliance with the shoreline policies and regulations for Commercial Development within the Puyallup Urban Conservancy designation. Site plans are included in Attachment D.

Abbreviated State and Federal Considerations

The Puyallup River is regulated as Waters of the United States (WOTUS) under the Clean Water Act (CWA) as it is a traditional navigable water. In addition, the Puyallup River is considered a natural waterway that is likely regulated by the WSDOE through the Revised Code of Washington (RCW) 90.48.

Conclusions

The site investigation identified one Shoreline of the State (Puyallup River)) on the subject property. The Puyallup River is designated as a Type I stream and is subject to a 150-foot buffer, and the shoreline jurisdiction extends for 200-feet landward from the OHW onto the subject property. The Puyallup River is designated as Urban Conservancy and subject to the provisions outlined in the Puyallup Shoreline Master Program. The subject property is also partially located withing the 100-year floodplain associated with the Puyallup River. No other potentially regulated wetlands, aquatic areas, and/or fish and wildlife habitat conservation areas were observed on or within 300 feet of the subject property. The proposed project will require minimal work within the 200-foot shoreline management zone, which will result in net zero change in impervious surface or footprint. Therefore, no shoreline or critical areas impacts are proposed, and no net loss of shoreline habitat is anticipated.

If you have any questions, please contact me at your earliest convenience.

Sincerely,

July 13, 2023

Jon Pickett
Associate Principal

Date

References

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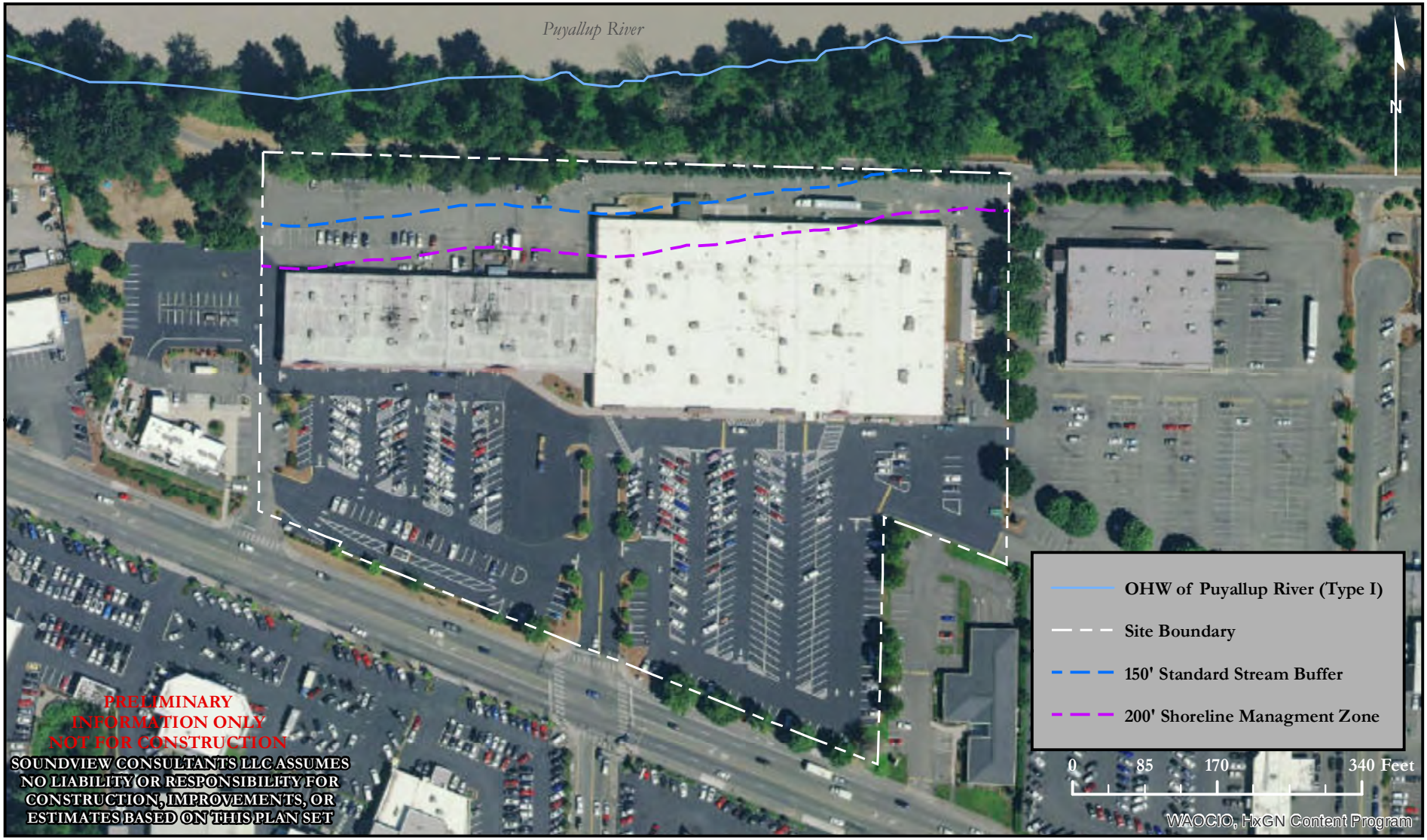
Attachment A – Existing Conditions

ENTERPRISE RENT-A-CAR (PUYALLUP) EXISTING CONDITIONS



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ENTERPRISE RENT-A-CAR
(PUYALLUP)
621 RIVER ROAD
PUYALLUP, WA 98371

PIERCE COUNTY PARCEL NUMBERS:
0420214051

DATE:	7/13/2023
JOB:	2611.0001
BY:	CM
SCALE:	1 " = 170 '
FIGURE NO.	1

Attachment B – Background Information

This attachment includes a DNR Stream Typing Map (B1); Puyallup Stream and Wetland Inventory (B2); Pierce County Stream and Wetland Inventory (B3); USFWS NWI Map (B4); WDFW PHS Map (B5); WDFW and NWIFC SWIFD Map (B6); FEMA Floodplain Map (B7); NRCS Soil Survey Map (B8); and Pierce County Topographic Map (B9).

Attachment B1 – DNR Stream Typing Map

Attachment B2 – Puyallup Stream and Wetland Inventory

Attachment B3 – Pierce County Stream and Wetland Inventory

Attachment B4 – USFWS NWI Map

Attachment B5 – WDFW PHS Map

7/12/2023, 3:55:08 PM

PHS Public Lines

PHS Public Polygon Outlines

AS MAPPED

PHS Public Polygons

AS MAPPED

Pierce - Parcels _Query result

1:4,514

0 140 280 560 ft

0 40 80 160 m

Pierce County WA, WDFW, Maxar

Soundview Consultants

Occurence Name	Federal Status	State Status	Sensitive Location
Bull Trout	Threatened	N/A	No
Spring Chinook	N/A	N/A	No
Pink Salmon Odd Year	N/A	N/A	No
Steelhead	Threatened	N/A	No
Coho	N/A	N/A	No
Fall Chum	N/A	N/A	No
Cutthroat	Not Warranted	N/A	No
Coho	Candidate	N/A	No
Winter Steelhead	N/A	N/A	No
Chum	Not Warranted	N/A	No
Fall Chinook	N/A	N/A	No
Pink	Not Warranted	N/A	No
Chinook	Threatened	N/A	No
Resident Coastal Cutthroat	N/A	N/A	No
Sockeye	N/A	N/A	No
Dolly Varden/ Bull Trout	N/A	N/A	No
Freshwater Forested/Shrub Wetland	N/A	N/A	No

PHS Species/Habitats Details:

Bull Trout	
Scientific Name	*Salvelinus malma/S. confluentus*
Priority Area	Occurrence
Site Name	Puyallup River
Accuracy	NA
Notes	LLID: 1224252472685, Stock Name: White River (Puyallup) Bull Trout, Run: Unspecified, Status: Unknown
Source Record	8156
Source Dataset	SASI
Source Name	Not Given
Source Entity	WDFW Fish Program
Federal Status	Threatened
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversity/soc/soc.htm
Geometry Type	Lines

Spring Chinook	
Scientific Name	*Oncorhynchus tshawytscha*

Priority Area	Breeding Area
Site Name	Puyallup River
Accuracy	NA
Notes	LLID: 1224252472685, Fish Name: Chinook Salmon, Run Time: Spring, Life History: Anadromous
Source Record	44880
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Pink Salmon Odd Year	
Scientific Name	*Oncorhynchus gorbuscha*
Priority Area	Occurrence/Migration
Site Name	Puyallup River
Accuracy	NA
Notes	LLID: 1224252472685, Fish Name: Pink Salmon, Run Time: Odd Year, Life History: Anadromous
Source Record	44887
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Steelhead	
Scientific Name	*Oncorhynchus mykiss*
Priority Area	Occurrence
Site Name	Puyallup River
Accuracy	NA
Notes	LLID: 1224252472685, Stock Name: Mainstem Puyallup Winter Steelhead, Run: Winter, Status: Depressed
Source Record	6182
Source Dataset	SASI
Source Name	Not Given
Source Entity	WDFW Fish Program
Federal Status	Threatened
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Coho	
Scientific Name	*Oncorhynchus kisutch*
Priority Area	Breeding Area
Site Name	Puyallup River
Accuracy	NA
Notes	LLID: 1224252472685, Fish Name: Coho Salmon, Run Time: Unknown or not Applicable, Life History: Anadromous
Source Record	44883
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Fall Chum	
Scientific Name	*Oncorhynchus keta*
Priority Area	Occurrence/Migration
Site Name	Puyallup River
Accuracy	NA
Notes	LLID: 1224252472685, Fish Name: Chum Salmon, Run Time: Fall, Life History: Anadromous
Source Record	44876
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Cutthroat	
Scientific Name	*Oncorhynchus clarki*
Priority Area	Occurrence
Site Name	Puyallup River
Accuracy	NA
Notes	LLID: 1224252472685, Stock Name: Puyallup Coastal Cutthroat, Run: Unspecified, Status: Unknown
Source Record	7400
Source Dataset	SASI
Source Name	Not Given
Source Entity	WDFW Fish Program
Federal Status	Not Warranted
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Coho	
Scientific Name	*Oncorhynchus kisutch*
Priority Area	Occurrence
Site Name	Puyallup River
Accuracy	NA
Notes	LLID: 1224252472685, Stock Name: White River (Puyallup) Coho, Run: Unspecified, Status: Healthy
Source Record	3170
Source Dataset	SASI
Source Name	Not Given
Source Entity	WDFW Fish Program
Federal Status	Candidate
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversity/soc/soc.htm
Geometry Type	Lines

Steelhead	
Scientific Name	*Oncorhynchus mykiss*
Priority Area	Occurrence
Site Name	Puyallup River
Accuracy	NA
Notes	LLID: 1224252472685, Stock Name: White River (Puyallup) Winter Steelhead, Run: Winter, Status: Depressed
Source Record	6189
Source Dataset	SASI
Source Name	Not Given
Source Entity	WDFW Fish Program
Federal Status	Threatened
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversity/soc/soc.htm
Geometry Type	Lines

Winter Steelhead	
Scientific Name	*Oncorhynchus mykiss*
Priority Area	Occurrence/Migration
Site Name	Puyallup River
Accuracy	NA
Notes	LLID: 1224252472685, Fish Name: Steelhead Trout, Run Time: Winter, Life History: Anadromous
Source Record	44894
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Chum	
Scientific Name	*Oncorhynchus keta*
Priority Area	Occurrence
Site Name	Puyallup River
Accuracy	NA
Notes	LLID: 1224252472685, Stock Name: Puyallup/Carbon Fall Chum, Run: Fall, Status: Healthy
Source Record	2187
Source Dataset	SASI
Source Name	Not Given
Source Entity	WDFW Fish Program
Federal Status	Not Warranted
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Bull Trout	
Scientific Name	*Salvelinus malma/S. confluentus*
Priority Area	Occurrence
Site Name	Puyallup River
Accuracy	NA
Notes	LLID: 1224252472685, Stock Name: Carbon Bull Trout/Dolly Varden, Run: Unspecified, Status: Unknown
Source Record	8168
Source Dataset	SASI
Source Name	Not Given
Source Entity	WDFW Fish Program
Federal Status	Threatened
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Fall Chinook	
Scientific Name	*Oncorhynchus tshawytscha*
Priority Area	Breeding Area
Site Name	Puyallup River
Accuracy	NA
Notes	LLID: 1224252472685, Fish Name: Chinook Salmon, Run Time: Fall, Life History: Anadromous
Source Record	44873
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Pink	
Scientific Name	*Oncorhynchus gorbuscha*
Priority Area	Occurrence
Site Name	Puyallup River
Accuracy	NA
Notes	LLID: 1224252472685, Stock Name: Puyallup Pink, Run: Odd-Year, Status: Depressed
Source Record	4520
Source Dataset	SASI
Source Name	Not Given
Source Entity	WDFW Fish Program
Federal Status	Not Warranted
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Chinook	
Scientific Name	*Oncorhynchus tshawytscha*
Priority Area	Occurrence
Site Name	Puyallup River
Accuracy	NA
Notes	LLID: 1224252472685, Stock Name: Puyallup Chinook, Run: Fall, Status: Unknown
Source Record	1176
Source Dataset	SASI
Source Name	Not Given
Source Entity	WDFW Fish Program
Federal Status	Threatened
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Bull Trout	
Scientific Name	*Salvelinus malma/S. confluentus*
Priority Area	Occurrence
Site Name	Puyallup River
Accuracy	NA
Notes	LLID: 1224252472685, Stock Name: Puyallup Bull Trout/Dolly Varden, Run: Unspecified, Status: Unknown
Source Record	8144
Source Dataset	SASI
Source Name	Not Given
Source Entity	WDFW Fish Program
Federal Status	Threatened
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Resident Coastal Cutthroat	
Scientific Name	*Oncorhynchus clarki*
Priority Area	Occurrence/Migration
Site Name	Puyallup River
Accuracy	NA
Notes	LLID: 1224252472685, Fish Name: Cutthroat Trout, Run Time: Unknown or not Applicable, Life History: Unknown
Source Record	44871
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Chinook	
Scientific Name	*Oncorhynchus tshawytscha*
Priority Area	Occurrence
Site Name	Puyallup River
Accuracy	NA
Notes	LLID: 1224252472685, Stock Name: White River Chinook, Run: Spring, Status: Critical
Source Record	1184
Source Dataset	SASI
Source Name	Not Given
Source Entity	WDFW Fish Program
Federal Status	Threatened
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Coho	
Scientific Name	*Oncorhynchus kisutch*
Priority Area	Occurrence
Site Name	Puyallup River
Accuracy	NA
Notes	LLID: 1224252472685, Stock Name: Puyallup Coho, Run: Unspecified, Status: Healthy
Source Record	3160
Source Dataset	SASI
Source Name	Not Given
Source Entity	WDFW Fish Program
Federal Status	Candidate
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Sockeye	
Scientific Name	*Oncorhynchus nerka*
Priority Area	Occurrence/Migration
Site Name	Puyallup River
Accuracy	NA
Notes	LLID: 1224252472685, Fish Name: Sockeye Salmon, Run Time: Unknown or not Applicable, Life History: Anadromous
Source Record	44893
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

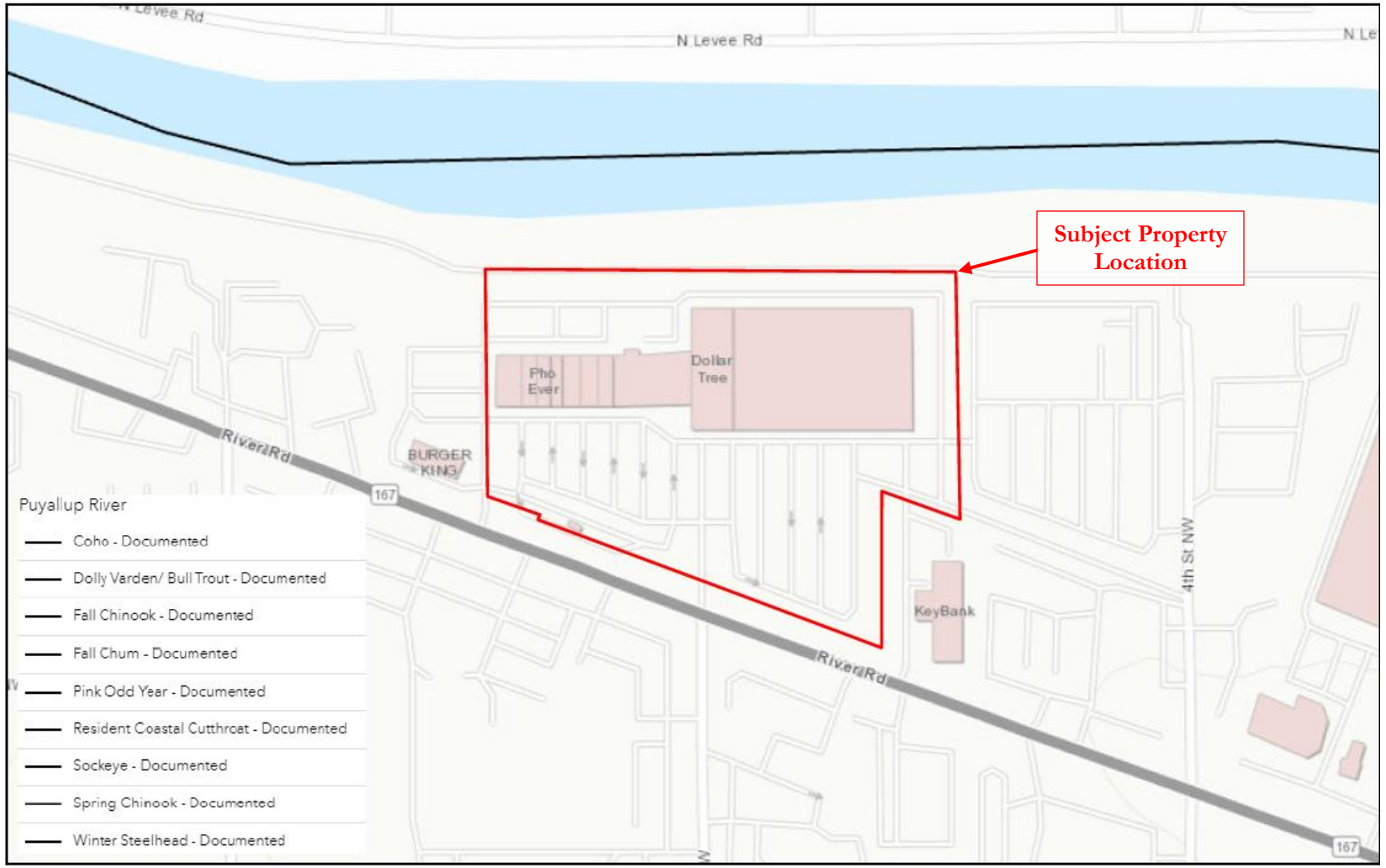
Steelhead	
Scientific Name	*Oncorhynchus mykiss*
Priority Area	Occurrence
Site Name	Puyallup River
Accuracy	NA
Notes	LLID: 1224252472685, Stock Name: Carbon Winter Steelhead, Run: Winter, Status: Depressed
Source Record	6196
Source Dataset	SASI
Source Name	Not Given
Source Entity	WDFW Fish Program
Federal Status	Threatened
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Dolly Varden/ Bull Trout	
Scientific Name	*Salvelinus malma/S. confluentus*
Priority Area	Occurrence/Migration
Site Name	Puyallup River
Accuracy	NA
Notes	LLID: 1224252472685, Fish Name: Bull Trout, Run Time: Unknown or not Applicable, Life History: Unknown
Source Record	44886
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Chum	
Scientific Name	*Oncorhynchus keta*
Priority Area	Occurrence
Site Name	Puyallup River
Accuracy	NA
Notes	LLID: 1224252472685, Stock Name: Fennel Creek Fall Chum, Run: Fall, Status: Healthy
Source Record	2176
Source Dataset	SASI
Source Name	Not Given
Source Entity	WDFW Fish Program
Federal Status	Not Warranted
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Freshwater Forested/Shrub Wetland	
Priority Area	Aquatic Habitat
Site Name	N/A
Accuracy	NA
Notes	Wetland System: Freshwater Forested/Shrub Wetland - NWI Code: PFO1C
Source Dataset	NWIWetlands
Source Name	Not Given
Source Entity	US Fish and Wildlife Service
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
ManagementRecommendations	http://www.ecy.wa.gov/programs/sea/wetlands/bas/index.html
Geometry Type	Polygons

Attachment B6 – WDFW and NWIFC SWIFD Map



7/12/2023, 3:59:11 PM

Pierce - Parcels _Query result

All SalmonScape Species

1:4,514

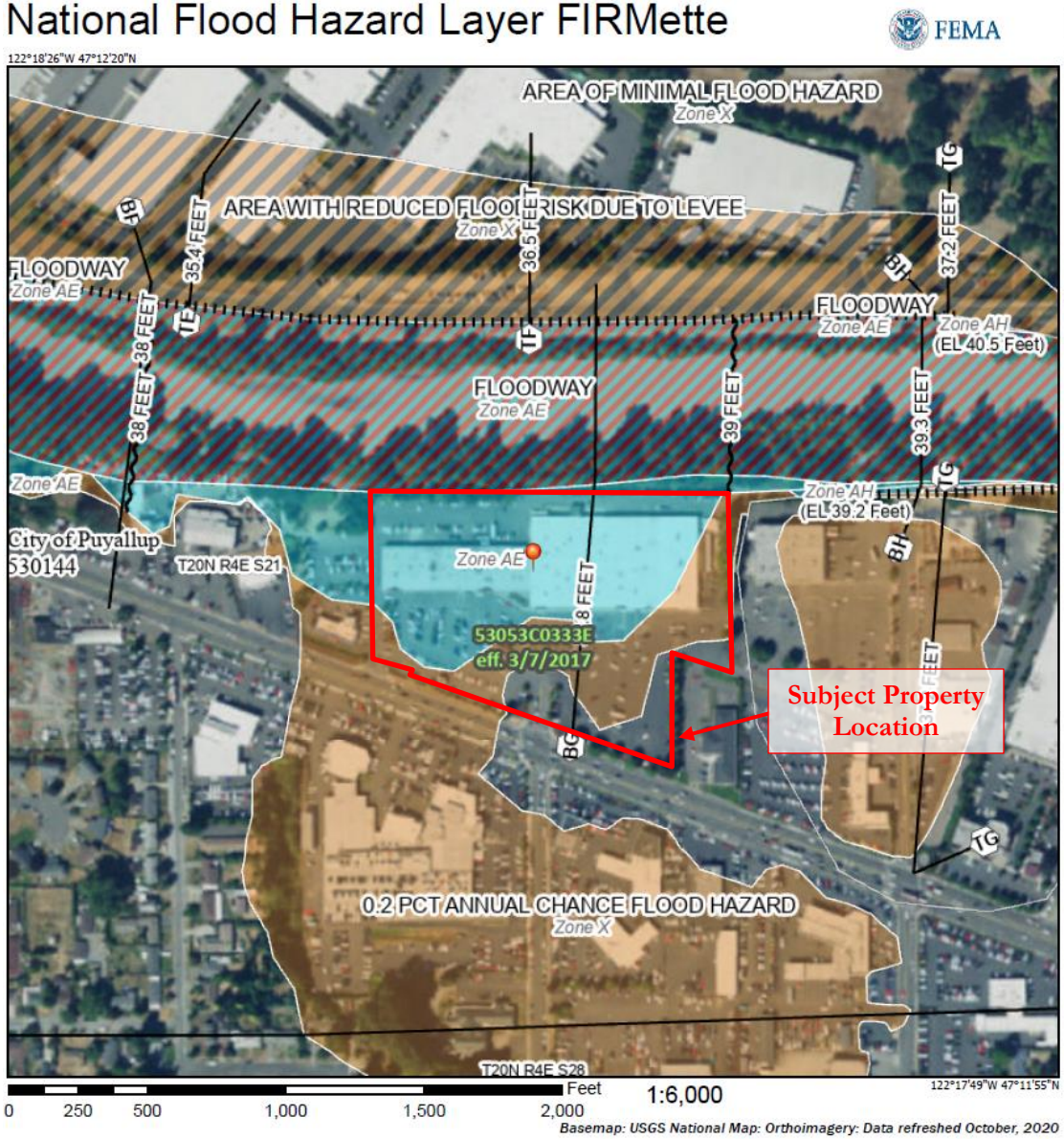
0 140 280 560 ft

0 40 80 160 m

County of King, Bureau of Land Management, Esri Canada, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA, WDFW

Attachment B7 – FEMA Floodplain Map

National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- SPECIAL FLOOD HAZARD AREAS
  - Without Base Flood Elevation (BFE) Zone A, V, A99
  - With BFE or Depth Zone AE, AO, AH, VE, AR
  - Regulatory Floodway
- OTHER AREAS OF FLOOD HAZARD
  - 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
  - Future Conditions 1% Annual Chance Flood Hazard Zone X
  - Area with Reduced Flood Risk due to Levee. See Notes. Zone X
  - Area with Flood Risk due to Levee Zone D
- OTHER AREAS
  - NO SCREEN Area of Minimal Flood Hazard Zone X
  - Effective LOMRs
  - Area of Undetermined Flood Hazard Zone D
- GENERAL STRUCTURES
  - Channel, Culvert, or Storm Sewer
  - Levee, Dike, or Floodwall
- OTHER FEATURES
  - 20.2 / 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
  - Coastal Transect
  - Base Flood Elevation Line (BFE)
  - Limit of Study
  - Jurisdiction Boundary
  - Coastal Transect Baseline
  - Profile Baseline
  - Hydrographic Feature
- MAP PANELS
  - Digital Data Available
  - No Digital Data Available
  - Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/12/2023 at 7:21 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Attachment B8 –NRCS Soil Survey Map

7/12/2023, 3:57:55 PM

Pierce - Parcels _Query result

USA Soils Map Units

29A: Pilchuck fine sand
31A: Puyallup fine sandy loam

1:4,514

0 140 280 560 ft

0 40 80 160 m

Pierce County WA, Source: USDA NRCS, Esri, Maxar

Attachment B9 – Pierce County Topographic Map

Attachment C – Site Photographs

Typical Site Conditions

Typical Shoreline Buffer

Puyallup River Shoreline

View of shoreline banks

Attachment D — Site Plans

SW 1/4, SE 1/4, SECTION 21, TOWNSHIP 20N, RANGE 4E, W.M.

ENTERPRISE PUYALLUP

TENANT IMPROVEMENT

DEVELOPMENT TEAM

OWNER / APPLICANT

EAN HOLDINGS, LLC
500 NACHES AVE. SW, SUITE 300
RENTON, WA 98057
CONTACT: SWARN SOLDATE
EMAIL: SWARN.E.SOLDATE@EHI.COM
PHONE: (425) 864-4355

CIVIL ENGINEER

MOMENTUM CIVIL
1145 BROADWAY, SUITE 115
TACOMA, WA 98402
CONTACT: MARC PUDISTS, P.E.
EMAIL: MARCP@MOMENTUMCIVIL.COM
PHONE: (253) 319-1505

CONTACT: DREW HARRIS, P.E.
EMAIL: DREWH@MOMENTUMCIVIL.COM
PHONE: (253) 319-1506

SURVEYOR

INFORMED LAND SURVEY
PO BOX 5137
TACOMA, WA 98415
CONTACT: EVAN WAHLSTROM
EMAIL: EWAHLSTROM@I-LANDSURVEY.COM
PHONE: (253) 627-2070

ARCHITECT

TG ARCHITECT
16198 SE 48TH DRIVE
BELLEVUE, WASHINGTON 98006
CONTACT: THERESA K. GREENE
EMAIL: TG.ARCHITECT@COMCAST.NET
PHONE: (425) 830-3245

CONTRACTOR

TBD

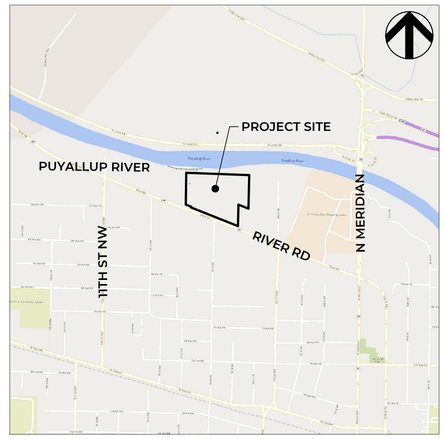
GENERAL NOTES

1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE APPROVED ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES AT (253-841-5568) TO SCHEDULE THE MEETING. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN SET OF APPROVED PLANS AT THE MEETING.
2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE CITY PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
7. ANY STRUCTURE AND/OR OBSTRUCTION THAT REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
8. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TRUE ELEVATIONS AND LOCATIONS OF HIDDEN UTILITIES. ALL VISIBLE ITEMS SHALL BE THE ENGINEER'S RESPONSIBILITY.
9. THE CONTRACTOR SHALL INSTALL, REPLACE, OR RELOCATE ALL SIGNS, AS SHOWN ON THE PLANS OR AS AFFECTED BY CONSTRUCTION, PER CITY STANDARDS.
10. POWER, STREET LIGHT, CABLE, AND TELEPHONE LINES SHALL BE IN A TRENCH LOCATED WITHIN A 10-FOOT UTILITY EASEMENT ADJACENT TO PUBLIC RIGHT-OF-WAY. RIGHT-OF-WAY CROSSINGS SHALL HAVE A MINIMUM HORIZONTAL SEPARATION FROM OTHER UTILITIES (SEWER, WATER, AND STORM) OF 5 FEET.
11. ALL CONSTRUCTION SURVEYING FOR EXTENSIONS OF PUBLIC FACILITIES SHALL BE DONE UNDER THE DIRECTION OF A WASHINGTON STATE LICENSED LAND SURVEYOR OR A WASHINGTON STATE LICENSED PROFESSIONAL CIVIL ENGINEER.
12. DURING CONSTRUCTION, ALL PUBLIC STREETS ADJACENT TO THIS PROJECT SHALL BE KEPT CLEAN OF ALL MATERIAL DEPOSITS RESULTING FROM ON-SITE CONSTRUCTION, AND EXISTING STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE CITY.
13. CERTIFIED RECORD DRAWINGS ARE REQUIRED PRIOR TO PROJECT ACCEPTANCE.
14. A NPDES STORMWATER GENERAL PERMIT MAY BE REQUIRED BY THE DEPARTMENT OF ECOLOGY FOR THIS PROJECT. FOR INFORMATION CONTACT THE DEPARTMENT OF ECOLOGY, SOUTHWEST REGION OFFICE AT (360)407-6300.
15. ANY DISTURBANCE OR DAMAGE TO CRITICAL AREAS AND ASSOCIATED BUFFERS, OR SIGNIFICANT TREES DESIGNATED FOR PRESERVATION AND PROTECTION SHALL BE MITIGATED IN ACCORDANCE WITH A MITIGATION PLAN REVIEWED AND APPROVED BY THE CITY'S PLANNING DIVISION. PREPARATION AND IMPLEMENTATION OF THE MITIGATION PLAN SHALL BE AT THE DEVELOPER'S EXPENSE.

FLOODPLAIN NOTE

PER FIRM PANEL 53053C0333E (EFFECTIVE ON 03/07/2017) THIS PROJECT IS WITHIN ZONE AE.

NORTH
100 0 50 100 200
(FEET)



VICINITY MAP
SCALE: 1" = 1,000'

PROJECT SUMMARY

THIS PROJECT ENTAILS IMPROVEMENTS TO SUPPORT THE INTERNAL TENANT IMPROVEMENT OF THE EXISTING, FORMER WASHINGTON DRIVER'S LICENSE OFFICE SPACE TO ACCOMMODATE ENTERPRISE RENTAL CAR OPERATIONS. CIVIL IMPROVEMENTS INCLUDE:
- NEW OIL/WATER SEPARATOR AND SEWER CONNECTION FOR CAR WASHING ACTIVITIES
- MINOR ASPHALT GRADING AT TWO NEW VEHICLE DOORS.

SEE SEPARATE TENANT IMPROVEMENT DRAWINGS BY ARCHITECT.

CIVIL SHEET INDEX

Pg #	Ref #	Sheet Title
1	C1.0	CIVIL COVER
2	C1.1	EXISTING CONDITIONS
3	C2.0	GRADING, UTILITY, AND TESC PLAN
4	C2.1	TESC AND SITE DETAILS
5	C2.2	UTILITY DETAILS

CONSTRUCTION SEQUENCE

1. HOLD A PRECONSTRUCTION MEETING WITH THE CITY AND OBTAIN REQUIRED PERMITS.
2. ESTABLISH CLEARING AND GRADING LIMITS.
3. CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE.
4. INSTALL INLET PROTECTION AND OTHER EROSION CONTROL DEVICES AS SHOWN.
5. CONSTRUCT PROTECTION DEVICES FOR CRITICAL AREAS AND SIGNIFICANT TREES PROPOSED FOR RETENTION.
6. SCHEDULE AN EROSION CONTROL INSPECTION WITH THE CITY.
7. NO UNCONTROLLED SURFACE WATER SHALL BE ALLOWED TO LEAVE THE SITE OR BE DISCHARGED TO A CRITICAL AREA AT ANY TIME DURING THE GRADING OPERATIONS.
8. GRADING ACTIVITIES MAY BEGIN ONLY AFTER ALL DRAINAGE AND EROSION CONTROL MEASURES ARE IN PLACE.
9. IDENTIFY EROSION CONTROL MEASURES WHICH REQUIRE REGULAR MAINTENANCE

SITE INFORMATION

PARCEL NUMBER(S): 0420214051
PROJECT ADDRESS: 733 RIVER ROAD, PUYALLUP, WA 98371
PARCEL AREA: 11.338 ACRES

SURFACE COVERAGE SUMMARY:

REPLACED IMPERVIOUS SURFACE:	800+/- SF (0.02 AC)
NEW POLLUTION GENERATING IMPERVIOUS SURFACE:	0+/- SF (0.00 AC)
LANDSCAPING/TOPSOIL AMENDMENT AREA:	0+/- SF (0.00 AC)
TOTAL DISTURBED AREA:	800+/- SF (0.02 AC)

SITE VOLUME CALCULATIONS

CUT VOLUME	1.12+/- CY
FILL VOLUME	1.07+/- CY
NET VOLUME	0.05+/- CY (CUT)

EARTHWORK NOTE: ALL VOLUMES ARE APPROXIMATE AND ARE PROVIDED FOR PERMITTING PURPOSES ONLY AND REPRESENT THE FINISH GRADE TO EXISTING GRADE AS SHOWN ON THE PLANS. CONTRACTOR SHALL RELY ON THEIR OWN ESTIMATES FOR DETERMINING ACTUAL EARTHWORK QUANTITIES. THE VOLUMES LISTED ABOVE DO NOT ACCOUNT FOR STRIPPINGS, IMPORTED SUBGRADE MATERIALS, PAVEMENT DEPTHS, TRENCHING, STRUCTURAL EXCAVATION, EXPANSION/COMPACTION FACTORS, OR ANY SOIL TYPE RESTRICTIONS.

FILL SPECIFICATION

FILL MATERIAL SHALL NOT CONTAIN PETROLEUM PRODUCTS, OR ANY KNOWN SUBSTANCES THAT ARE TOXIC, HAZARDOUS, DANGEROUS, OR WHICH OTHERWISE VIOLATE ANY STATE, FEDERAL, OR LOCAL LAW, ORDINANCE CODE, REGULATION RULE, ORDER, OR STANDARD OF AN AGENCY HAVING JURISDICTION . ALL FILL MATERIAL SHALL BE EARTHEN, BE CAPABLE OF COMPACTION IN COMPLIANCE WITH ASTM D1557, AND BE IN COMPLIANCE WITH THE PROJECT-SPECIFIC GEOTECHNICAL RECOMMENDATIONS.

POST-CONSTRUCTION SOIL QUALITY AND DEPTH

ALL DISTURBED SOILS THAT ARE TO REMAIN VEGETATED IN THE POST-DEVELOPED CONDITION SHALL BE AMENDED IN-PLACE TO COMPLY WITH DEPARTMENT OF ECOLOGY BEST MANAGEMENT PRACTICE (BMP) T5.14

EXISTING CONDITIONS VERIFICATION

PRIOR TO ANY EXCAVATION ACTIVITIES, THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF UNDERGROUND UTILITIES TO IDENTIFY ANY POTENTIAL CONFLICTS WITH PROPOSED CONSTRUCTION. CONTACT PROJECT ENGINEER IF ANY CONFLICTS ARE IDENTIFIED. EXISTING UTILITIES SHALL BE POTHOLED AT THE LOCATION WHERE NEW CONNECTIONS ARE PROPOSED TO VERIFY INVERTS, MATERIALS, SIZE, AND GENERAL CONFORMANCE WITH THESE PLANS. CONTACT PROJECT ENGINEER IF CONDITIONS ARE DIFFERENT THAN ANTICIPATED.

PRIOR TO ANY CONSTRUCTION ACTIVITIES, VERIFY EXISTING TOPOGRAPHY AND GENERAL SITE FEATURES ARE CONSISTENT WITH THESE PLANS AND IF THERE ARE ANY POTENTIAL CONFLICTS WITH PROPOSED IMPROVEMENTS. CONTACT PROJECT ENGINEER IF ANY CONFLICTS ARE IDENTIFIED.

TOPOGRAPHIC SURVEY DISCLAIMER

THE EXISTING CULTURAL AND TOPOGRAPHIC DATA SHOWN ON THESE PLANS HAS BEEN PREPARED BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, MOMENTUM CIVIL CANNOT ENSURE ITS ACCURACY AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OF THAT INFORMATION OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE PLANS AS A RESULT.

TRENCH SAFETY

IF WORKERS ENTER ANY TRENCH OR OTHER EXCAVATION FOUR (4) OR MORE FEET IN DEPTH THAT DOES NOT MEET THE OPEN PIT REQUIREMENTS OF WSDOT SECTION 2-09.3(3)B, IT SHALL BE SHORED AND CRIBBED. THE CONTRACTOR ALONE SHALL BE RESPONSIBLE FOR WORKER SAFETY AND MOMENTUM CIVIL ASSUMES NO RESPONSIBILITY. ALL TRENCH SAFETY SYSTEMS SHALL MEET THE REQUIREMENTS OF THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT, CHAPTER 49.17 RCW.

ELECTRONIC FILE RELEASE

AN AUTOCAD (DWG) DRAWING FILE OF THE PLANS WILL BE MADE AVAILABLE TO THE CONTRACTOR UPON REQUEST. PLEASE BE AWARE THAT ELECTRONIC FILES ARE FURNISHED SOLELY FOR CONTRACTOR'S CONVENIENCE AND SHALL NOT REPLACE NOR BE USED TO SUBSTITUTE THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING THE IMPROVEMENTS ACCORDING TO THE CONTRACT DOCUMENTS.

UTILITY PURVEYORS / SERVICES

STORM: CITY OF PUYALLUP
1100 39TH AVENUE SE
PUYALLUP, WA 98374
CONTACT: JONATHAN WIKANDER
EMAIL: JONATHANW@PUYALLUPWA.GOV
PHONE: (253) 841-5505

SEWER: CITY OF PUYALLUP
1100 39TH AVENUE SE
PUYALLUP, WA 98374
CONTACT: JONATHAN WIKANDER
EMAIL: JONATHANW@PUYALLUPWA.GOV
PHONE: (253) 841-5505

WATER: CITY OF PUYALLUP
1100 39TH AVENUE SE
PUYALLUP, WA 98374
CONTACT: CRAIG HALE
EMAIL: CRAIG@PUYALLUPWA.GOV
PHONE: (253) 841-5503

811 Know what's below. Call before you dig.

NO.	DATE	REVISION DESCRIPTION	BY	CK

1-13-23
MARC A. PUDISTS — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER
PERMIT SET

ENTERPRISE PUYALLUP
EAN HOLDINGS, LLC
CIVIL COVER
733 RIVER ROAD
CITY OF PUYALLUP

MOMENTUM CIVIL
1145 BROADWAY, SUITE 115
TACOMA, WA 98402
PHONE: 253.319.1504

CHECKED BY: M. PUDISTS
DESIGNED BY: T. BALIAN
DRAWN BY: T. BALIAN

HORZ. DATUM: NAD83
VERT. DATUM: NAVD88

DATE: 7/13/23

PROJECT NO. ENTP0008

SHEET NO. 1 OF 5

REFERENCE NO. C1.0

Plot Date: 7/13/2023 12:07 PM By: Taylor.Balian
Save Date: 7/13/2023 12:02 PM By: Taylor.Balian
File:P:\ENTP0008 - Puy\0400CAD\Sheets\Site Development\CV-ENTP08.dwg

TOPOGRAPHIC SURVEY

LEGAL DESCRIPTION

COMMENCING AT THE INTERSECTION OF THE NORTH LINE OF STATE HIGHWAY NO. 5 WITH THE WEST LINE OF 4TH STREET NORTHWEST, AS CONVEYED TO THE CITY OF PUYALLUP BY DEED RECORDED UNDER RECORDING NO. 1708035 (SAID WEST LINE HAVING A BEARING OF NORTH 00°17'31" EAST) IN THE SOUTHEAST QUARTER OF SECTION 21, TOWNSHIP 20 NORTH, RANGE 4 EAST OF THE WILLAMETTE MERIDIAN, IN PIERCE COUNTY, WASHINGTON;
THENCE NORTH 69°21'30" WEST ALONG SAID NORTH LINE OF STATE HIGHWAY NO. 5, 570.00 FEET TO THE TRUE POINT OF BEGINNING;
THENCE CONTINUING ALONG SAID NORTH LINE OF STATE HIGHWAY NO. 5, NORTH 69°21'30" WEST 705.72 FEET;
THENCE NORTH 20°38'30" 10.00 FEET;
THENCE 69°21'30" WEST 282.36 FEET TO THE BOUNDARY LINE AS DESCRIBED IN BOUNDARY LINE AGREEMENT RECORDED JANUARY 5, 1965 UNDER RECORDING NO. 2084406 AND ALSO RECORDED APRIL 25, 1969 UNDER RECORDING NO. 2291266;
THENCE LEAVING SAID NORTH LINE OF STATE HIGHWAY NO. 5 AND RUNNING ALONG SAID BOUNDARY LINE 10°23'30" WEST 372.46 FEET;
THENCE SOUTH 78°20'14" EAST 40.00 FEET MORE OR LESS, TO THE NORTH–SOUTH CENTER LINE OF SAID SECTION 21;
THENCE NORTH ALONG SAID CENTER LINE 30.63 FEET, MORE OR LESS, TO THE SOUTH LINE OF THE INTERCOUNTY RIVER IMPROVEMENT RIGHT OF WAY FOR THE NEW CHANNEL OF THE PUYALLUP RIVER;
THENCE EASTERLY ALONG SAID SOUTH LINE OF THE INTERCOUNTY RIVER IMPROVEMENT RIGHT OF WAY TO A POINT BEARING NORTH 00°17'31" EAST FROM A POINT LYING NORTH 00°17'31" EAST 300.00 FEET AND NORTH 69°21'30" WEST 420.19 FEET FROM THE INTERSECTION OF THE NORTH LINE OF STATE HIGHWAY NO. 5 WITH THE WEST LINE OF SAID 4TH STREET NORTHWEST;
THENCE SOUTH 00°17'31" WEST 468.33 FEET TO A LINE PARALLEL WITH AND 300.00 FEET NORTH OF THE NORTH LINE OF STATE HIGHWAY NO. 5;
THENCE ALONG PARALLEL LINE NORTH 69°21'30" WEST 149.81 FEET;
THENCE SOUTH 00°17'31" WEST 300 FEET TO THE TRUE POINT OF BEGINNING;

EXCEPT THAT PORTION IN THE NORTHWEST CORNER OF SAID PREMISES CONVEYED TO PIERCE COUNTY BY DEED RECORDED UNDER RECORDING NO. 2766745 FOR THE INTERCOUNTY RIVER IMPROVEMENT ROAD(60TH STREET COURT EAST)

SURVEYOR'S NOTES

1. THE PURPOSE OF THIS SURVEY IS TO PROVIDE TOPOGRAPHIC INFORMATION OF A PORTION OF THE PARCEL AS DESCRIBED HEREON.
2. THIS SURVEY WAS MADE BY FIELD TRAVERSE USING A GEOMAX ZOOM 90 2" ROBOTIC TOTAL STATION AND A TOPCON HIPER SR GPS WITH RESULTING CLOSURES EXCEEDING THE MINIMUM ACCURACY STANDARDS AS SET FORTH BY WAC 332–130.
3. THE BOUNDARY CORNERS AND LINES DEPICTED ON THIS MAP REPRESENT DEED LINES ONLY. THEY DO NOT PURPORT TO SHOW OWNERSHIP LINES THAT MAY OTHERWISE BE DETERMINED BY A COURT OF LAW.
4. THE LEGAL DESCRIPTION IS PER RECORDS OF PIERCE COUNTY AUDITOR'S OFFICE, RECORDING NO. 202106281097, DATED JUNE 28, 2021.
5. FIELD WORK FOR THIS PROJECT WAS PERFORMED IN JUNE, 2022, NOVEMBER, 2022 & JULY, 2023 AND IS THEREFORE A REFLECTION OF THE CONDITIONS AT THAT TIME. ALL MONUMENTS WERE VISITED OR SET IN JUNE, 2022 & NOVEMBER, 2022 UNLESS OTHERWISE NOTED. THIS SITE CONTAINS IMPROVEMENTS NOT LOCATED OR SHOWN AS A PART OF THIS SURVEY.
6. THIS SURVEY DOES NOT PURPORT TO SHOW ALL EASEMENTS OF RECORD.
7. OVERHEAD UTILITY LINES SHOWN ON THIS MAP ARE INTENDED TO SHOW THE DIRECTION OF THE OVERHEAD UTILITY LINES ONLY AND DO NOT REPRESENT THE ACTUAL WIDTH, NUMBER OR LOCATION OF LINE(S) ON THE UTILITY POLES.

HORIZONTAL DATUM

THE HORIZONTAL DATUM FOR THIS SURVEY IS NAD 83/91 WASHINGTON STATE PLANE SOUTH ZONE, BASED ON RTK GPS OBSERVATION AND THE WASHINGTON STATE REFERENCE NETWORK.

VERTICAL DATUM

THE VERTICAL DATUM FOR THIS SURVEY IS NAVD88. TIES WERE MADE TO CITY OF PUYALLUP BENCHMARK #1412/NW–11–11 PUBLISHED ELEVATION OF 37.507 FEET(NGVD29) THEN CONVERTED TO NAVD88 USING CORPSCON (NGVD29+3.48'=NAVD88) (37.507'(NGVD29)+3.48'=40.987'(NAVD88)). THE MONUMENT IS LOCATED AT THE NORTHEAST QUADRANT OF THE INTERSECTION OF 11TH AVENUE NORTHWEST AND 11TH STREET NORTHWEST UNITS OF MEASUREMENT ARE U.S. SURVEY FEET.

REFERENCE SURVEYS

R1) RECORD OF SURVEY, RECORDING NO. 1382
R2) RECORD OF SURVEY, RECORDING NO. 3003
R3) CITY OF PUYALLUP SHORT PLAT, RECORDING NO. 8907280358

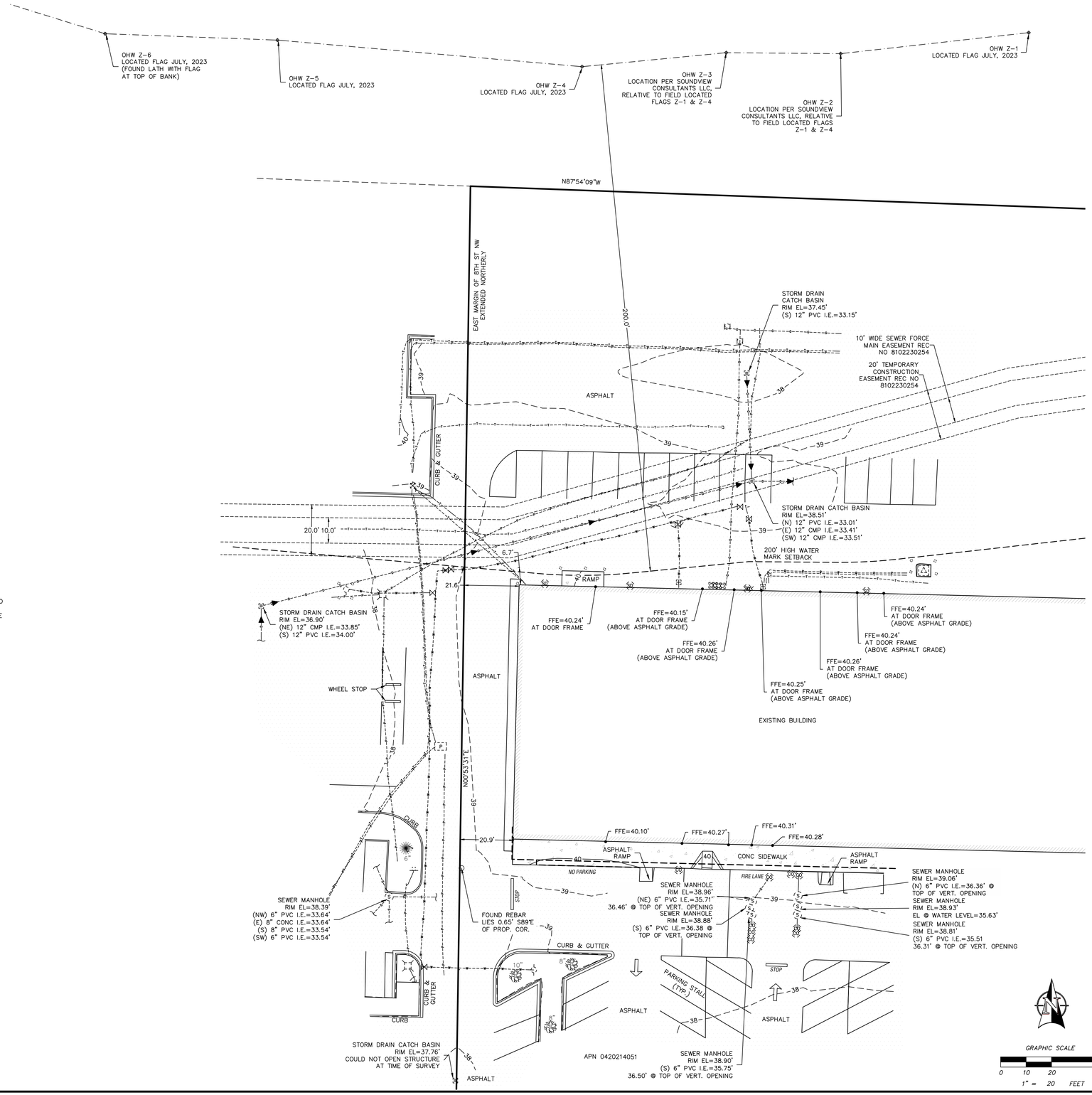
RECORDS OF PIERCE COUNTY AUDITOR'S OFFICE

LEGEND

- FOUND REBAR & CAP (AS SHOWN)
- ORDINARY HIGH WATER FLAG
- POWER VAULT
- POWER TRANSFORMER
- GAS METER
- GAS VALVE
- STORM DRAIN CLEANOUT
- STORM DRAIN CATCH BASIN
- SEWER MANHOLE
- SEWER CLEANOUT
- GUARD POST
- SIGN
- COMMUNICATION PEDESTAL
- CEDAR TREE
- FRUIT TREE
- FIRE DEPARTMENT CONNECT
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- LIGHT POLE

F.F.E. FINISHED FLOOR ELEVATION

- STORM DRAIN LINE
- SEWER LINE
- GAS PAINT LINE
- WATER PAINT LINE
- TELEPHONE PAINT LINE
- POWER PAINT LINE



NOTE:
THE EXISTING UTILITIES AS SHOWN ARE ONLY APPROXIMATE AND ARE BASED ON THE BEST AVAILABLE INFORMATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE SIZE, TYPE, LOCATION, AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION, AND INFORM THE DESIGN ENGINEER OF ANY DISCREPANCIES.

Call Before You Dig
1–800–424–5555

SHT. 1 OF 1

LOCATED IN SW 1/4 OF THE SE 1/4 OF SECTION 21, TOWNSHIP 20N, RANGE 4E, W.M.

FOR: MOMENTUM CIVIL ENGINEERING CONSULTANTS

CITY OF PUYALLUP, PIERCE COUNTY, WA

TOPOGRAPHIC SURVEY

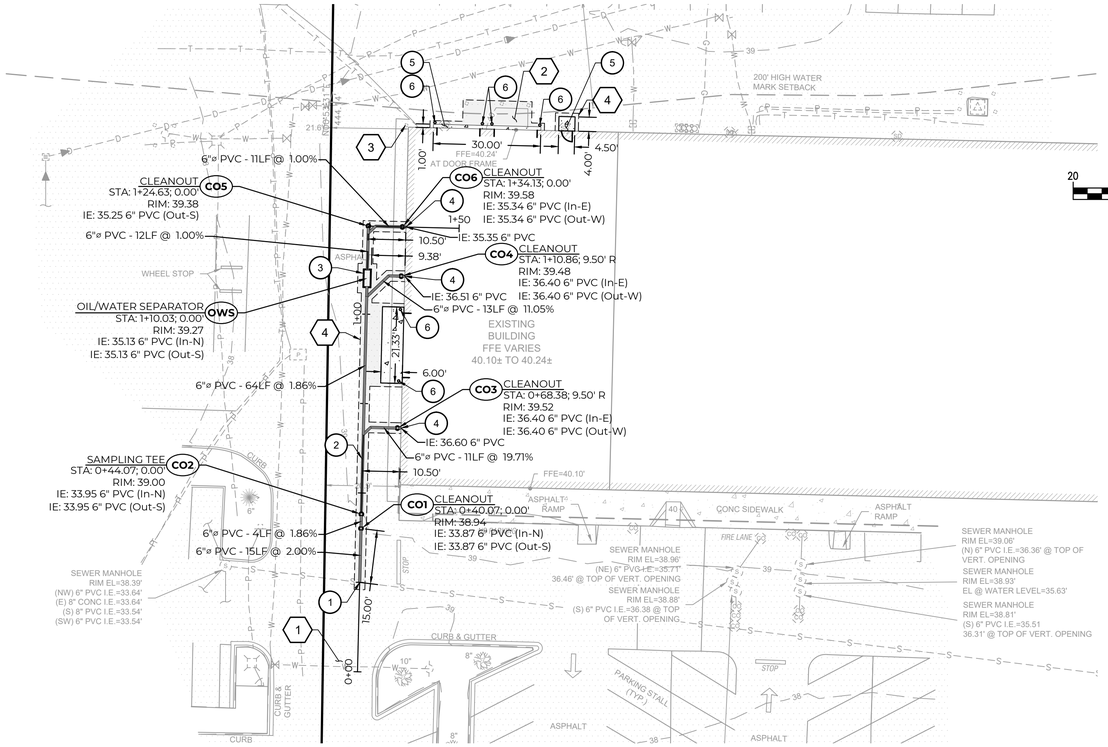
DRAFTED: AG	CHECKED: EMW
DATE: 7/11/2023	JOB NO.: MOMEN-220427
SCALE: 1"=20'	FIELD CREW: DA, TB, MW, AJ, CZ

EVAN M. WALSTROM — REGISTERED PROFESSIONAL LAND SURVEYOR — STATE OF WASHINGTON — 22238 — 7/11/2023

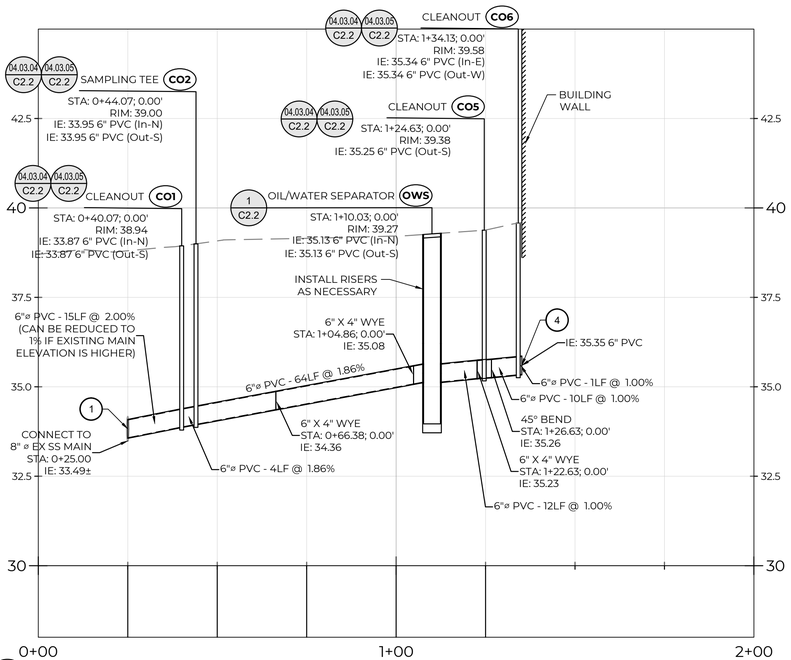
621 RIVER RD
PUYALLUP, WA 98371
TAX PARCEL NO. 0420214051 & 0420214049

informed land survey
P.O.Box 5137
Tacoma, WA 98415-0137
Phone: 253-627-2070
admin@-landsurvey.com
www.-landsurvey.com
LAND SURVEYING • MAPPING • CONSTRUCTION LAYOUT

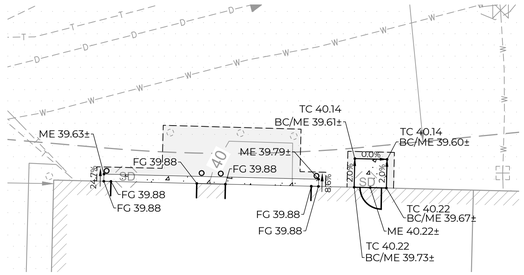
SW 1/4, SE 1/4, SECTION 21, TOWNSHIP 20N, RANGE 4E, W.M.



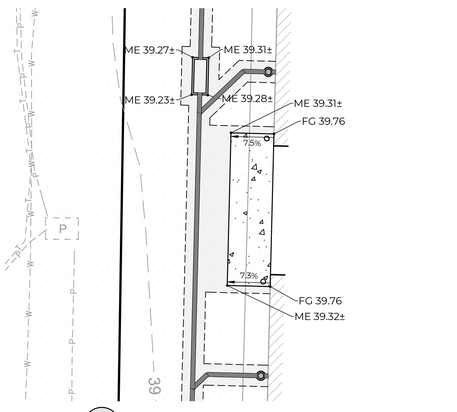
1 UTILITY AND TESC PLAN
SCALE: NTS



2 SANITARY SEWER CONNECTION (STA: 0+00 TO 2+00)
Horz. Scale: 1" = 20' | Vert. Scale: 1" = 2'



3 NORTH RAMP GRADING ENLARGEMENT
SCALE: NTS



4 WEST RAMP GRADING ENLARGEMENT
SCALE: NTS

SANITARY SEWER NOTES

1. All work in City right-of-way requires a permit from the City of Puyallup. Prior to any work commencing, the general contractor shall arrange for a preconstruction meeting at the Development Services Center to be attended by all contractors that will perform work shown on the engineering plans, representatives from all applicable Utility Companies, the project owner and appropriate City staff. Contact Engineering Services to schedule the meeting (253) 841-5568. The contractor is responsible to have their own approved set of plans at the meeting.
2. After completion of all items shown on these plans and before acceptance of the project, the contractor shall obtain a "punch list" prepared by the City's inspector detailing remaining items of work to be completed. All items of work shown on these plans shall be completed to the satisfaction of the City prior to acceptance of the sewer system and provision of sanitary sewer service.
3. All materials and workmanship shall conform to the Standard Specifications for Road, Bridge, and Municipal Construction (hereinafter referred to as the "Standard Specifications"), Washington State Department of Transportation and American Public Works Association, Washington State Chapter, latest edition, unless superseded or amended by the City of Puyallup City Standards for Public Works Engineering and Construction (hereinafter referred to as the "City Standards").
4. A copy of these approved plans and applicable city developer specifications and details shall be on site during construction.
5. Any revisions made to these plans must be reviewed and approved by the developer's engineer and the Engineering Services Staff prior to any implementation in the field. The City shall not be responsible for any errors and/or omissions on these plans.
6. The contractor shall have all utilities verified on the ground prior to any construction. Call (811) at least two working days in advance. The owner and his/her engineer shall be contacted immediately if a conflict exists.
7. Any structure and/or obstruction which require removal or relocation relating to this project shall be done so at the developer's expense.
8. Minimum grade on all 4 inch residential side sewers shall be 2 percent and 6 inch commercial side sewers shall be 1 percent; maximum shall be 8 percent. All side sewers shall be 6 inches within City right-of-way.
9. Side sewers shall be installed in accordance with City Standard Nos. 04.03.01, 04.03.02, 04.03.03 and 04.03.04. Side sewer installation work shall be done in accordance with the Washington Industrial Safety and Health Act (WISHA).
10. All sewer pipe shall be PVC, Polypropylene, or Ductile Iron. PVC sewer pipe shall conform to ASTM D-3034, SDR35 for pipe sizes 15-inch and smaller and ASTM F679 for pipe sizes 18- to 27-inch, ductile iron pipe shall be Class 51 or greater, lined with Protecto 401TM epoxy lining or equivalent, unless otherwise noted. 12-inch through 30-inch Polypropylene Pipe (PP) shall be dual wallled, have a smooth interior and exterior corrugations and meet WSDOT 9-05.24(2). It shall meet or exceed ASTM F2764. 36-inch through 60-inch PP pipe shall be triple walled and meet WSDOT 9-05.24(2). It shall meet or exceed ASTM F2764. PP shall have a minimum pipe stiffness of 46 pii when tested in accordance with ASTM D2412. Testing shall be per ASTM F1417. Trenching, bedding, and backfill shall be in accordance with City Standard No. 06.01.01. Minimum cover on PVC and PP pipe shall be 3.0 feet. Minimum cover on ductile iron pipe shall be 1.0 foot.
11. Sanitary sewer manhole frames and covers shall conform to City Standard No. 06.01.02.
12. Sanitary sewer manholes shall conform to City Standard Nos. 04.01.01, 04.01.02, 04.01.03 and 04.01.04. All manholes shall be channeled for future lines as specified on these plans. Manhole steps and ladder shall conform to Standard No. 06.01.03.
13. Sanitary sewer pipe and side sewers shall be 10 feet away from building foundations and/or roof lines with the exception of side sewers that provide service to a single-family residence. At the discretion of the review engineer, a Licensed Professional Engineer will be required to stamp the design to account for depth or proximity to foundation, steep slopes, or other factors.
14. No side sewers shall be connected to any house or building until all manholes are adjusted to the finished grade of the completed asphalt roadway and the asphalt patch and seal around the ring are accepted.
15. For commercial developments in which sources of grease and/or oils may be introduced to the City sanitary sewer system, a City approved grease interceptor shall be installed downstream from the source.
16. Once sewer and all other utility construction is completed, all sanitary sewer mains and side sewers shall be tested per Section 406 of the City Standards.

LEGEND

- BUILDING FOOTPRINT
- PROPERTY BOUNDARY
- 19 — EXISTING MINOR CONTOUR
- 20 — EXISTING MAJOR CONTOUR
- 19 — PROPOSED MINOR CONTOUR
- 20 — PROPOSED MAJOR CONTOUR
- FULL DEPTH PAVEMENT SAWCUT LINE
- S — S — EXISTING SANITARY SEWER LINE
- NEW SANITARY SEWER LINE
- SANITARY SEWER CLEANOUT (04.03.05 C2.2)
- HMA PAVEMENT
- CONCRETE PAVEMENT (2 C2.1)

SPOT ELEVATIONS

- EG 282.4± EXISTING GRADE
- ME 282.4± MATCH EXISTING
- FG 282.00 FINISH GRADE
- TC 282.00 TOP OF CURB
- BC 282.00 BOTTOM OF CURB

TESC/DEMO KEYNOTES

1. PROTECT DOWNSTREAM INLETS PER DETAIL 1 ON SHEET C2.1.
2. REMOVE EXISTING RAMP, RAILING, AND BOLLARDS.
3. EXISTING BOLLARD TO REMAIN.
4. FULL-DEPTH SAWCUT AND REMOVE EXISTING PAVING/CONCRETE AS NECESSARY TO INSTALL NEW CONCRETE RAMPS.

CIVIL/UTILITY KEYNOTES

1. CONNECT TO EXISTING SANITARY SEWER MAIN WITH ROMAC STYLE "CB" SEWER SADDLE PER CITY STANDARD 04.02.01 ON SHEET C2.2. CONTRACTOR TO POTHOLE AND VERIFY LOCATION AND ELEVATION OF EXISTING SEWER PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF A DISCREPANCY IS FOUND..
2. INSTALL SIDE SEWER PER CITY STANDARD 04.03.04 ON SHEET C2.2 WITH PIPE BEDDING AND BACKFILL PER 06.01.01 ON SHEET C2.2. PIPE TO BE PVC CONFORMING TO ASTM D-3034, SDR 35.
3. OIL/WATER SEPARATOR, OLDCASTLE MODEL 25-CPS. SEE DETAIL 1 ON SHEET C2.2. CONTRACTOR TO PROVIDE UPSTREAM AND DOWNSTREAM SAMPLING TEES WITHIN VAULT AS SHOWN ON DETAIL. CONTRACTOR TO PROVIDE SHUTOFF VALVE IMMEDIATELY DOWNSTREAM OF VAULT. CONTRACTOR TO PROVIDE RISERS AS NECESSARY TO SET FRAME AND LID.
4. CONNECT TO BUILDING SEWER WITH APPROPRIATE ADAPTER. VERIFY LOCATION AND INVERT ELEVATION WITH MEP PLANS.
5. RE-ROUTE ROOF DRAINS AS REQUIRED AND RECONNECT TO STORM DRAIN
6. INSTALL 6" BOLLARD PER DETAIL 3 ON SHEET C2.1.

NOTE: THE PROPERTY OWNER IS RESPONSIBLE FOR AND SHALL RETAIN OWNERSHIP OF OIL/WATER SEPARATOR AND SIDE SEWER LINES. SERVICE/MAINTENANCE RECORDS SHALL BE KEPT ON THE PREMISES AT ALL TIMES AND SHALL BE IMMEDIATELY AVAILABLE TO THE CITY UPON REQUEST.

CONTRACTOR TO PROVIDE ANY DEWATERING DESIGN IF NEEDED FOR SIDE SEWER INSTALLATION. ALL STORMWATER OR DEWATERING WATER DISCHARGED FROM THE SITE MUST MEET THE EFFLUENT LIMITATIONS SET FORTH IN THE DEPARTMENT OF ECOLOGY'S GENERAL STORMWATER PERMIT. IF NECESSARY, CONTRACTOR SHALL PROVIDE A SETTLING TANK/POND OR A FILTRATION UNIT TO MAINTAIN COMPLIANCE WITH WASHINTON STATE DOE REGULATIONS.

CONTRACTOR SHALL COORDINATE BUILDING PENETRATION LOCATIONS WITH PLUMBING PLANS.

ALL SEWER AND WATER CONSTRUCTION SHALL COMPLY WITH THE LOCAL JURISDICTIONAL REQUIREMENTS AND STANDARD PLANS.

NO.	DATE	REVISION DESCRIPTION	BY	CK
1	7.13.23	PERMIT SET	TB	MP

1-13-23
MARC A. PUDISTS
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER

PERMIT SET

ENTERPRISE PUYALLUP
EAN HOLDINGS, LLC
733 RIVER ROAD
CITY OF PUYALLUP

GRADING, UTILITY, AND TESC PLAN

MOMENTUM CIVIL
1145 BROADWAY, SUITE 115
TACOMA, WA 98402
PHONE: 253.319.1504

CHECKED BY: M. PUDISTS
DESIGNED BY: T. BALIAN
DRAWN BY: T. BALIAN

HORZ. DATUM: NAD83
VERT. DATUM: NAVD88

DATE: 7/13/23

PROJECT NO. ENTP0008

SHEET NO. 3 OF 5

REFERENCE NO. C2.0

Plot Date: 7/13/2023 12:08 PM By: Taylor.Balian
Save Date: 7/13/2023 10:39 AM By: TaylorBalian File:P:\E\ENTP0008 - Puy\0400CAD\Sheets\Site Development\UT-ENTP08.dwg

1. ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION AS PRESCRIBED ON THE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD AND OBSERVED DURING CONSTRUCTION.

2. ALL REQUIRED SEDIMENTATION AND EROSION CONTROL FACILITIES MUST BE CONSTRUCTED AND IN OPERATION PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE NATURAL DRAINAGE SYSTEM. THE CONTRACTOR SHALL SCHEDULE AN INSPECTION OF THE EROSION CONTROL FACILITIES PRIOR TO ANY LAND CLEARING AND/OR CONSTRUCTION. ALL EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION AS DETERMINED BY THE CITY, UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT, AND ADDITIONS TO THE EROSION AND SEDIMENTATION CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE PERMITEE.

3. THE EROSION AND SEDIMENTATION CONTROL SYSTEM FACILITIES DEPICTED ON THESE PLANS ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE, FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON THE SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITEE TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.

4. APPROVAL OF THESE PLANS IS FOR GRADING, TEMPORARY DRAINAGE, EROSION AND SEDIMENTATION CONTROL ONLY. IT DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT STORM DRAINAGE DESIGN, SIZE OR LOCATION OF PIPES, RESTRICTORS, CHANNELS, OR RETENTION FACILITIES.

5. ANY DISTURBED AREA WHICH HAS BEEN STRIPPED OF VEGETATION AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 30 DAYS OR MORE, MUST BE IMMEDIATELY STABILIZED WITH MULCHING, GRASS PLANTING, OR OTHER APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE TIME OF YEAR IN QUESTION. GRASS SEEDING ALONE WILL BE ACCEPTABLE ONLY DURING THE MONTHS OF APRIL THROUGH SEPTEMBER INCLUSIVE. SEEDING MAY PROCEED OUTSIDE THE SPECIFIED TIME PERIOD WHENEVER IT IS IN THE INTEREST OF THE PERMITEE BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER TREATMENT APPROVED BY THE CITY.

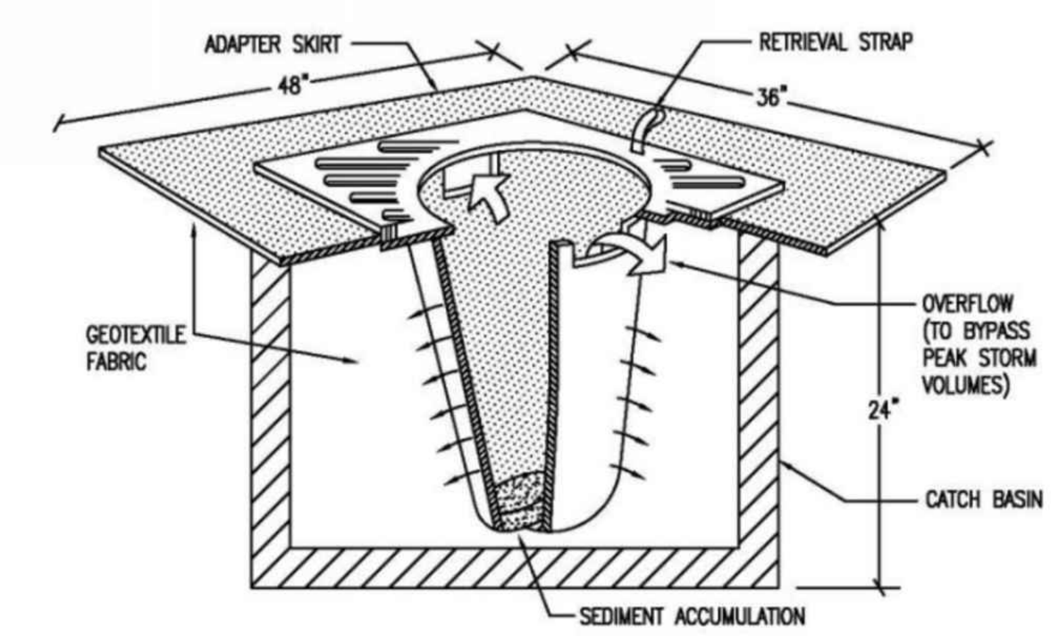
6. IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTIES, ALL CONSTRUCTION WORK WITHIN THE DEVELOPMENT THAT WILL FURTHER AGGRAVATE THE SITUATION MUST CEASE, AND THE OWNER/CONTRACTOR WILL IMMEDIATELY COMMENCE RESTORATION METHODS. RESTORATION ACTIVITY WILL CONTINUE UNTIL SUCH TIME AS THE AFFECTED PROPERTY OWNER IS SATISFIED.

7. NO TEMPORARY OR PERMANENT STOCKPILING OF MATERIALS OR EQUIPMENT SHALL OCCUR WITHIN CRITICAL AREAS OR ASSOCIATED BUFFERS, OR THE CRITICAL ROOT ZONE FOR VEGETATION PROPOSED FOR RETENTION.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

GRADING, EROSION, AND SEDIMENTATION CONTROL NOTES

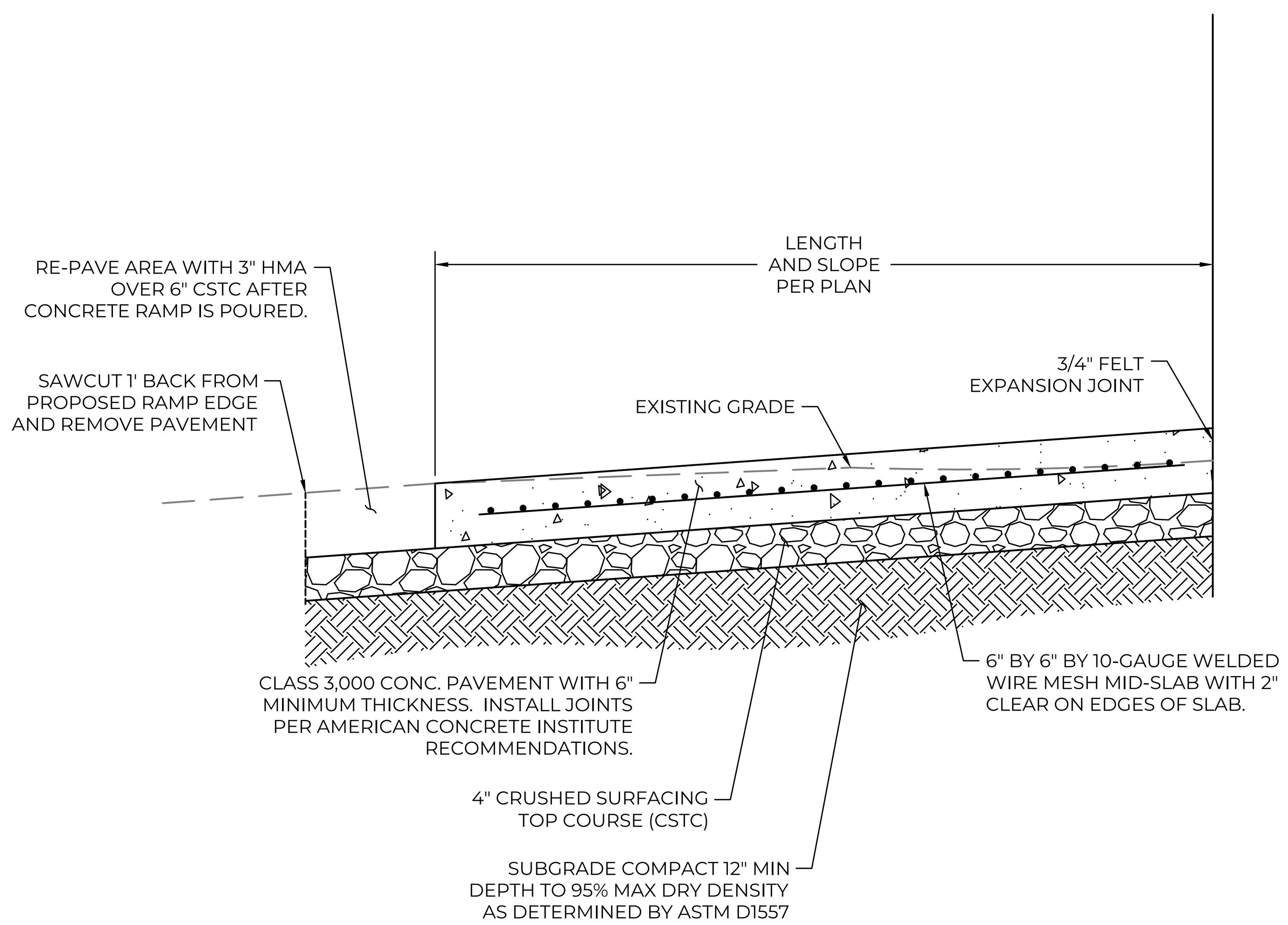
CITY STANDARD 05.02.01



INLET PROTECTION NOTES:

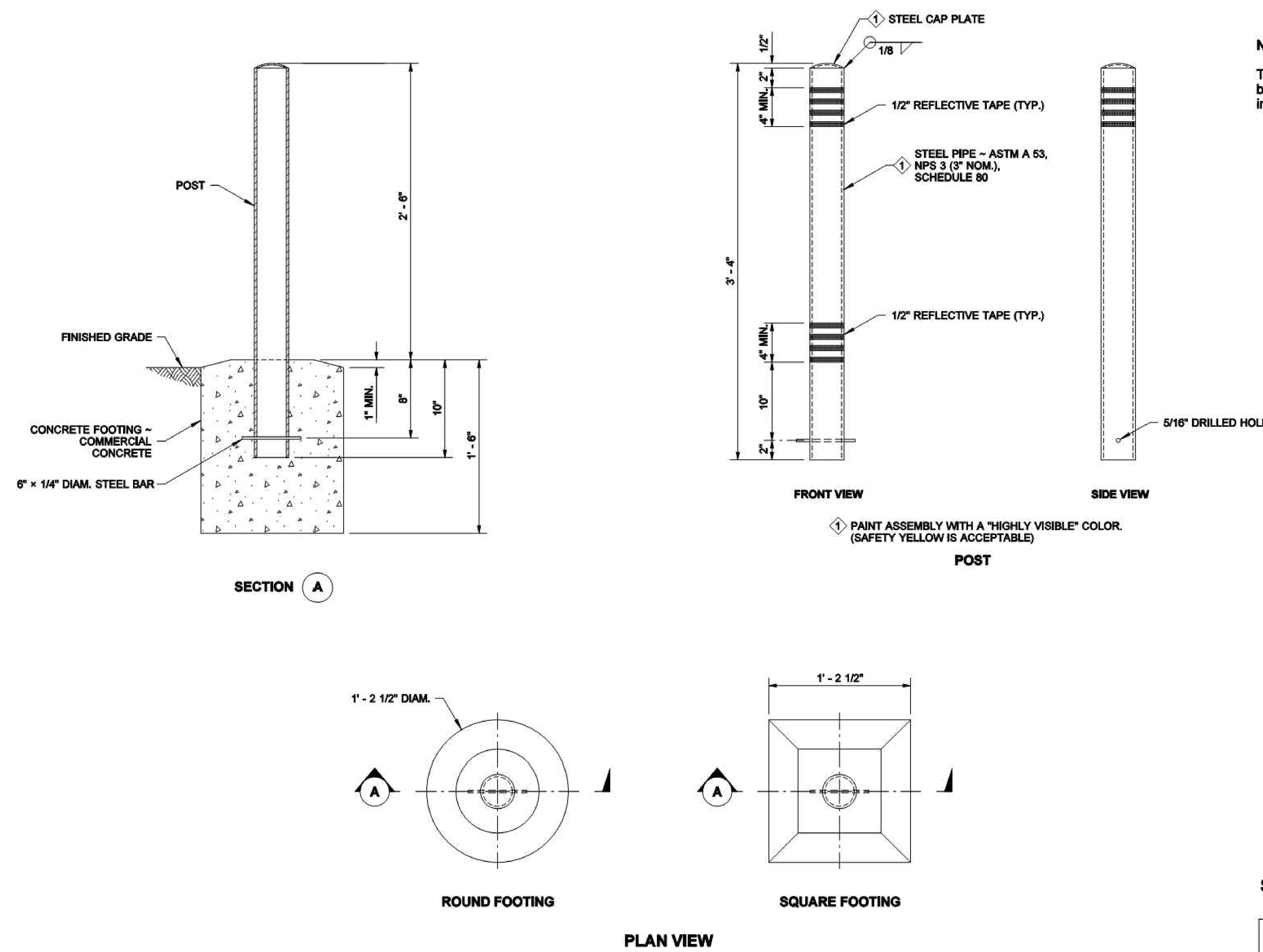
1. FILTERS SHALL BE INSPECTED AFTER EACH STORM EVENT AND CLEANED OR REPLACED WHEN 1/3 FULL.

1 CATCH BASIN FILTER
SCALE: NTS



2 CONCRETE RAMP
SCALE: NTS

DRAWN BY: BILL BERENS



NOTE

This bollard does not have an effective breakaway design feature and cannot be installed within the Design Clear Zone.

BOLLARD TYPE 2

STANDARD PLAN H-60.20-01

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Pasco Bakotich III 07-03-08
STATE DESIGN ENGINEER DATE
Washington State Department of Transportation

EXPIRES JUNE 19, 2010

3 6-INCH BOLLARD
SCALE: NTS

NO.	DATE	REVISION DESCRIPTION	BY	CK

7-13-23

PERMIT SET

ENTERPRISE PUYALLUP
EAN HOLDINGS, LLC
TESC AND SITE DETAILS
733 RIVER ROAD
CITY OF PUYALLUP

MOMENTUM CIVIL
1145 BROADWAY, SUITE 115
TACOMA, WA 98402
PHONE: 253.319.1504

CHECKED BY: M. PUDISTS
DESIGNED BY: T. BALIAN
DRAWN BY: T. BALIAN

HORZ. DATUM: NAD83
VERT. DATUM: NAVD88

DATE: 7/13/23

PROJECT NO. ENTP0008

SHEET NO. 4 OF 5

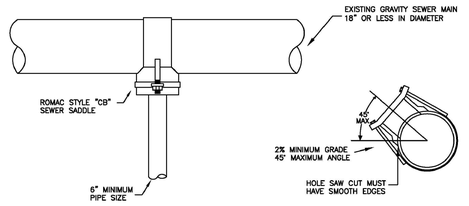
REFERENCE NO. C2.1

Plot Date: 7/13/2023 12:08 PM By: Taylor Balian
Save Date: 7/13/2023 10:44 AM By: TaylorBalian File:P:\E\ENTP0008 - Puy\0400CAD\Sheets\Site Development\UT-DT-ENTP08.dwg

SW 1/4, SE 1/4, SECTION 21, TOWNSHIP 20N, RANGE 4E, W.M.

NOTES FOR CONNECTING TAPS ON EXISTING SEWER MAINS

1. THE TEE FITTING SHALL BE A ROMAC INDUSTRIES STYLE "CB" SEWER SADDLE (OR APPROVED EQUAL). ONLY NEW SADDLE AND PARTS SHALL BE INSTALLED. DUE TO PIPE SIZE MATERIALS OR PIPE CONDITION, THE CITY ENGINEER MAY REQUIRE AN ALTERNATE METHOD/MATERIAL BE USED.
2. THE SEWER MAIN TAP SHALL BE CUT WITH A SEWER PIPE TAPPING MACHINE (HOLE SAW) CAPABLE OF RETAINING THE COUPON.
3. THE ROUND HOLE CUT INTO THE SEWER MAIN SHALL BE NO LARGER THAN THE INSIDE DIAMETER OF THE SADDLE GASKET. THE HOLE SAW CUT EDGES SHALL BE SMOOTH.
4. THE COUPON SHALL BE RETAINED AND SURRENDERED TO THE INSPECTOR. THE PERMIT HOLDER WILL PAY ALL COSTS ASSOCIATED WITH THE LOCATION AND RETRIEVAL OF A LOST COUPON. ADDITIONALLY THE PERMIT HOLDER WILL BE HELD LIABLE FOR ANY SUBSEQUENT DAMAGES CAUSED BY A LOST COUPON.
5. BOLTS SHALL BE TORQUED TO MANUFACTURE SPECIFICATIONS, THEN RETORQUED AFTER 10 MINUTES.
6. NO TAPS SHALL BE ALLOWED ON EXISTING SEWER MAINS OVER 18" IN DIAMETER. CONNECTIONS INTO SEWER MAINS OVER 18" IN DIAMETER SHALL INTERSECT THE SEWER MAIN IN A MANHOLE. IN SOME CASES THE CITY ENGINEER MAY ALLOW A VARIANCE TO THIS REQUIREMENT.
7. ALL TRENCHING, BEDDING, AND BACKFILL SHALL BE IN ACCORDANCE WITH CITY STANDARD DETAIL NO. 06.01.01. ALL ASPHALT REPAIR SHALL BE IN ACCORDANCE WITH CITY STANDARD NO. 01.01.20. ALL ADDITIONAL UTILITY AND RIGHT OF WAY REPAIRS SHALL BE INACCORDANCE WITH THE "CITY STANDARDS" MANUAL.
8. THE CITY OF PUYALLUP WILL CONDUCT A "SEWER MAIN VIDEO INSPECTION" OF THE SEWER TAP. THE PERMIT HOLDER WILL BE REQUIRED TO REPAIR ANY SEWER TAP CONSTRUCTION DEFECTS FOUND BY THE CITY INSPECTORS. THE COST OF ALL REPAIRS AND SUBSEQUENT "SEWER MAIN VIDEO INSPECTIONS" WILL BE THE RESPONSIBILITY OF THE PERMIT HOLDER. THE DAMAGE DEPOSIT POSTED BY THE BUILDER WILL BE HELD UNTIL PROBLEMS ARE CORRECTED. DUE TO PUBLIC HEALTH AND SAFETY, BUILDING OCCUPANCY WILL NOT BE ALLOWED UNTIL REPAIRS ARE COMPLETED AND ACCEPTED BY THE CITY ENGINEER.



CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

SEWER MAIN TAP

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	DATE REVISED	SCALE	CITY STANDARD
JIM IRWIN-SVOBODA	LINDA LIAN	COLLEEN HARRIS	XXXX	XX/XX/XX	1:2	04.02.01

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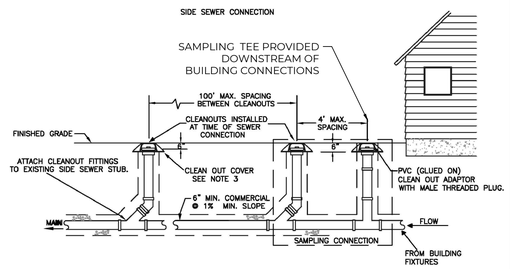
DATE APPROVED: 07/01/2009

SIDE SEWER CONNECTION



NOTES:

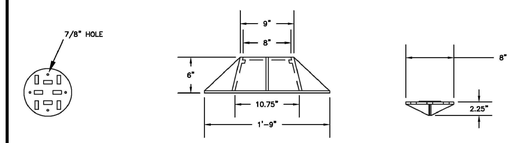
1. SAMPLING CONNECTION SHALL BE INSTALLED OUT SIDE WITH UNOBSTRUCTED ACCESS AT ALL TIMES.
2. A SAMPLING CONNECTION SHALL BE INSTALLED FOR EACH COMMERCIAL / RETAIL UNIT OR SPACE.
3. CLEAN OUT AND SAMPLING CONNECTION COVERS:
   A) FOR NON-VEHICULAR TRAFFIC INSTALLATIONS USE "CARSON" MODEL 910 GREEN YARD BOX WITH BOLT DOWN LID MARKED SEWER OR APPROVED EQUAL.
   B) FOR ASPHALT, GRAVEL, OR TRAFFIC INSTALLATIONS SEE CITY STANDARD DETAIL NO. 04.03.05 FRAME AND COVER SECTION.
4. EACH CLEANOUT ASSEMBLY SHALL CONSIST OF: ONE CLEANOUT ADAPTER, HUB x FEMALE, FIPT, PVC SI AND ONE CLEANOUT PLUG, MOPT WITH RAISED NUT, PVC SDR35.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

COMMERCIAL SIDE SEWER CONNECTION WITH SAMPLING CONNECTION

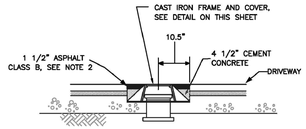
DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	SCALE	CITY STANDARD
JIM IRWIN-SVOBODA	LINDA LIAN	COLLEEN HARRIS	LINDA LIAN	1:4	04.03.04

FILE NAME: P:\DWG\COM\MOW\STDS\CITY\2009\04_SI\04.03.04.03.04
DATE APPROVED: 07/01/2009
DATE REVISED: 03/21/11



FRAME AND COVER SECTION

SCALE 1:1



NOTES

1. NEAT LINE CUT SHALL BE SEALED AT THE TOP WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED.
2. ALL MATERIAL SHALL CONFORM TO THE 1991 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION PREPARED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER.
3. MACHINE BEARING FACES OF FRAME AND COVER TO INSURE POSITIVE FIT.
4. EACH CLEAN OUT ASSEMBLY SHALL CONSIST OF: ONE CLEAN OUT ADAPTOR (HUB X FEMALE INSIDE PIPE THREAD, P.V.C. SLIP IN), AND ONE CLEAN OUT PLUG (MALE OUTSIDE PIPE THREAD WITH RAISED NUT, P.V.C. SDR35).

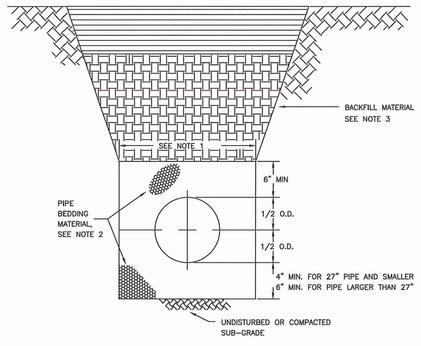
SCALE 1:2

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

SIDE SEWER CLEAN OUT WHEN PLACED IN DRIVEWAY

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	SCALE	CITY STANDARD
JIM IRWIN-SVOBODA	LINDA LIAN	COLLEEN HARRIS	XXXX		04.03.05

FILE NAME: P:\DWG\COM\MOW\STDS\CITY\2009\04_SI\04.03.05.03.05
DATE APPROVED: 07/01/2009
DATE REVISED: XX/XX/XX



1. TRENCHING SHALL MEET THE REQUIREMENTS OF SECTION 7-08.3(1)A AND 2-06.3(1) OF THE WSDOT SPECIFICATIONS.
2. BEDDING MATERIAL SHALL CONFORM TO 9-03.12(3) GRAVEL BACKFILL FOR PIPE ZONE BEDDING.
3. GRAVEL BACKFILL SHALL CONFORM TO 9-03.12(1)A GRAVEL BACKFILL FOR FOUNDATIONS, CLASS A.

CITY OF PUYALLUP
OFFICE of THE CITY ENGINEER

PIPE TRENCHING BEDDING AND BACKFILL

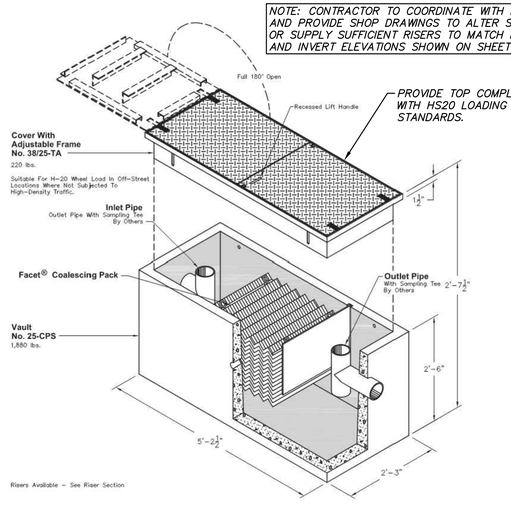
DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	DATE REVISED	CITY STANDARD
JIM IRWIN-SVOBODA	TED HILL	MARK PALMER	V STOCKMAN	05/21/11 12/15/17 XX/XX/XX	06.01.01

FILE NAME: P:\DWG\COM\MOW\STDS\CITY\STD\06_MISC\06.01.06.01.01
DATE APPROVED: 07/01/2009
SCALE: 1:1

Oldcastle Precast AUBURN — Delivering Reliability

25-CPS OIL WATER SEPARATOR
Project Plate Area = 64 Sq/ft
Maximum Process Flow = 60 GPM

NOTE: CONTRACTOR TO COORDINATE WITH MANUFACTURER AND PROVIDE SHOP DRAWINGS TO ALTER STANDARD UNIT OR SUPPLY SUFFICIENT RISERS TO MATCH PROPOSED RIM AND INVERT ELEVATIONS SHOWN ON SHEET C2.0.



Risers Available – See Riser Section

NOTE: THIS DETAIL IS THE STANDARD CONFIGURATION. CONTRACTOR TO PROVIDE SHOP DRAWINGS SHOWING A CONFIGURATION THAT MATCHES THE SITE ELEVATIONS. A SLOPED LID WILL BE PROVIDED ACCORDING TO THE GRADING PLAN AND THE DEPTH WILL MATCH THE PROPOSED SANITARY SEWER PROFILE. THE LID SHALL MEET REQUIREMENTS FOR H20 LOADING.

FOR DETAILS, SEE REVERSE>>

Items Shown Are Subject To Change Without Notice
Issue Date: April 2016

140

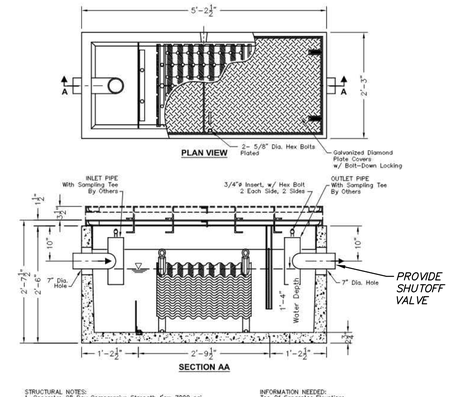
Mailing Address
PO Box 588
Auburn, WA 98071

Phone: 800-992-1538
Fax: 253-735-1201
Email: opauburn@oldcastle.com

opauburn.com

Oldcastle Precast — Delivering Reliability

25-CPS
Project Plate Area = 64 Sq/ft
Maximum Process Flow = 60 GPM



STRUCTURAL NOTES:
1. Concrete: 28 Day Compressive Strength f'c= 7000 psi
2. Rebar: ASTM A-615 Grade 60
3. Mesh: ASTM A-185 Grade 65
4. Design: ACI-318-05 Building Code
   ASTM C-890 "Minimum Structural Design
   Loading For Underground Precast Concrete
   Utility Structures" Class A-1
5. Loads: HS-20 Truck Wheel w/ 30% Impact Per AASHTO

GENERAL NOTES:
1. All Baffles and Weirs To Be 3/16" Steel Plate
2. Static Water Depth = 1'-4"
3. Contractor to:
   Supply and Install All Piping & Sampling Tees
   Per Shop Drawings
   Fill With Clean Water Prior To "Start-Up" Of System
   Verify All Blockout Sizes and Locations

INFORMATION NEEDED:
Top Of Separator Elevation:
Inlet Pipe Size:
Inlet Pipe Elevation:
Outlet Pipe Size:
Outlet Pipe Elevation:

BASIC DESIGN INFORMATION:
INFLUENT CHARACTERISTICS:
Oil Specific Gravity: 0.85
Operating Temperature: 50°
Influent Oil Concentration: 100 ppm
Mean Oil Droplet Size: 130 Microns
0.033 ft/min Oil Rise Rate
Designed Per Washington State Department Of Ecology
100% REMOVAL

FLOW RATE	EFFLUENT QUALITY	COLLECTED SIZE
20 GPM	10 ppm	60 Micron

140.1

opauburn.com

OIL WATER SEPARATOR SIZING ASSUMPTIONS

WASH THROUGHPUT FOR CAR WASHES AT THIS LOCATION (PROVIDED BY OWNER):

- 9 GALLONS PER CAR WASH
- 3 MINUTE WASH CYCLE
- TWO WASH BAYS

ENGINEER'S CALCULATION:
DURING A CAR WASH 9 GALLONS WILL BE USED OVER A TIME OF 3 MINUTES. THIS EQUATES TO A FLOW RATE OF 3 GPM PER WASH BAY, 6 GPM TOTAL.

AT MOST, ONE ADDITIONAL HOSE BIB PER WASH BAY WILL BE USED SIMULTANEOUSLY WITH A FLOW RATE OF 5 GPM PER HOSE BIB, 10 GPM TOTAL.

THEREFORE, MAXIMUM FLOW TO THE OIL/WATER SEPARATOR IS EXPECTED TO BE APPROXIMATELY 16 GPM.

AN OIL/WATER SEPARATOR WITH A 20 GPM DESIGN FLOW RATE AND 60 GPM MAXIMUM PROCESS FLOW HAS BEEN SELECTED AND WILL PROVIDE ADEQUATE PROTECTION.

1 OWS
SCALE: NTS

NO.	DATE	REVISION DESCRIPTION	BY	CK

1-13-23
MARC A. PUDISTS
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER

PERMIT SET

ENTERPRISE PUYALLUP
EAN HOLDINGS, LLC

UTILITY DETAILS

733 RIVER ROAD
CITY OF PUYALLUP

MOMENTUM CIVIL
1145 BROADWAY, SUITE 115
TACOMA, WA 98402
PHONE: 253.319.1504

CHECKED BY: M. PUDISTS
DESIGNED BY: T. BALIAN
DRAWN BY: T. BALIAN

HORZ. DATUM: NAD83
VERT. DATUM: NAVD88

DATE: 7/13/23

PROJECT NO. ENTP0008

SHEET NO. 5 OF 5

REFERENCE NO. C2.2

Plot Date: 7/13/2023 10:08 PM By: Taylor Balian
Save Date: 7/13/2023 10:44 AM By: TaylorBalian File:P:\E\ENTP0008 - Puy\040CAD\Sheets\Site Development\UT-DT-ENTP08.dwg

Attachment E — Qualifications

All field inspections, jurisdictional wetland boundary delineations, habitat assessments, and supporting documentation, including this ***Shoreline Habitat Management Plan Technical Memorandum*** prepared for the ***Enterprise Rent-A-Car (Puyallup)*** project were prepared by, or under the direction of, Jon Pickett, of SVC. In addition, site inspections were performed by Catherine Mills and report preparation was completed by Cody Berthiaume, and Quality Assurance/Quality Control was completed by Rachael Hyland.

Jon Pickett

Associate Principal
Professional Experience: 10+ years

Jon Pickett is an Associate Principal and Senior Scientist with a diverse background in environmental and shoreline compliance and permitting, wetland and stream ecology, fish and wildlife biology, mitigation compliance and design, and environmental planning and land use due diligence. Jon oversees a wide range of large-scale industrial, commercial, and multi-family residential projects throughout Western Washington, providing environmental permitting and regulatory compliance assistance for land use entitlement projects from feasibility through mitigation compliance. Jon performs wetland, stream, and shoreline delineations and fish & wildlife habitat assessments; conducts code and regulation analysis and review; prepares reports and permit applications and documents; provides environmental compliance recommendation; and provides restoration and mitigation design.

Jon earned a Bachelor of Science degree in Natural Resource Sciences from Washington State University and Bachelor of Science and Minor in Forestry from Washington State University. Jon has received 40-hour wetland delineation training (Western Mountains, Valleys, & Coast and Arid West Regional Supplements) and regularly performs wetland, stream, and shoreline delineations. Jon is a Whatcom County Qualified Wetland Specialist and Wildlife Biologist and is a Pierce County Qualified Wetland Specialist. He has been formally trained by WSDOE in the use of the Washington State Wetland Rating System 2014, How to Determine the Ordinary High-Water Mark (Freshwater and Marine), Using Field Indicators for Hydric Soils, and the Using the Credit-Debit Method for Estimating Mitigation Needs.

Catherine Mills

Staff Scientist II
Professional Experience: 2+ years

Catherine Mills is a Staff Scientist with a background in fish, wildlife, and conservation biology in Colorado State. Catherine earned her Bachelor of Science degree in Conservation Biology from Colorado State University, Fort Collins. There she received extensive, hands-on experience working in lab and field settings, and studying wildlife management, biodiversity and natural resource policy. Catherine also spent a semester abroad at Lincoln University in Christchurch New Zealand, where she studied island ecology, wildlife management and environmental planning. One of her more exceptional projects was constructing a research proposal entitled, Impacts of Anthropogenic Pollutants on Fibropapillomatosis in *Chelonia mydas* in Florida. This project required research, report writing, project budgeting, and an extensive methodology for data analysis. Amidst her undergraduate career, Catherine also interned in the Pollination Lab at CSU. There she conducted research to study

the role phytochemicals play on honeybee health, through field work, data collection, and chemical assays.

Catherine currently assists in wetland, stream, and shoreline delineations and fish and wildlife habitat assessments; conducts environmental code analysis; and prepares environmental assessment and mitigation reports, biological evaluations, and permit applications to support clients through the regulatory and planning process for various land use projects.

Cody Berthiaume

Staff Scientist
Professional Experience: 5+ years

Cody Berthiaume is a Staff Scientist with a background in wildlife research, ecological monitoring, and natural resource management. Cody's experience comes from a variety of seasonal positions, spanning multiple disciplines and ecosystems. Currently, he assists with tree assessments, wetland delineations, and report writing. Previously, he has contributed to the creation and implementation of field protocols regarding arboreal surveys and captures of red tree voles in working timber stands. Cody has also led remote field crews collecting standardized vegetation and soil data (AIM/IIRH), in conjunction with the Bureau of Land Management. Additionally, as an AmeriCorps volunteer, Cody has worked closely with NPS personnel assisting with invasive species removal and priority wildlife and habitat monitoring. Cody graduated from the University at Buffalo with a Bachelor of Science in Environmental Studies with a concentration in Environmental Resources & Management.

Rachael Hyland, PWS, Certified Ecologist

Senior Environmental Scientist
Professional Experience: 10 years

Rachael Hyland is a Senior Environmental Scientist with extensive wetland and stream delineation and regulatory coordination experience. Rachael has a background in wetland and ecological habitat assessments in various states, most notably Washington, Connecticut, Massachusetts, Rhode Island, and Ohio. She has experience in assessing wetland, stream, riparian, and tidal systems, as well as complicated agricultural and disturbed sites. She currently performs wetland, stream, and shoreline delineations and fish and wildlife habitat assessments; conducts environmental code analysis; and prepares environmental assessment and mitigation reports, biological evaluations, and permit applications to support clients through the regulatory and planning process for various land use projects. She also has extensive knowledge of bats and their associated habitats and white nose syndrome (*Pseudogymnoascus destructans*), a fungal disease affecting bats which was recently documented in Washington.

Rachael earned a Bachelor of Science degree in Ecology and Evolutionary Biology from the University of Connecticut, with additional ecology studies at the graduate level. Rachael is a Professional Wetland Scientist (PWS #3480) through the Society of Wetland Scientists as well as a Certified Ecologist through the Ecological Society of America. She has completed 40-hour wetland delineation training for Western Mountains, Valleys, & Coast and Arid West Regional Supplement, in addition to formal training for the Northcentral and Northeast supplement, and experience with the Midwest, Eastern Mountains and Piedmont, and Atlantic and Gulf Coast supplements. She has also received formal training from the Washington State Department of Ecology in the Using the Revised 2014 Wetland Rating System for Western Washington, How to Determine the Ordinary High Water Mark,

Navigating SEPA, Selecting Wetland Mitigation Sites Using a Watershed Approach, and Wetland Classification. Rachael has also received training from the Washington State Department of Transportation in Biological Assessment Preparation for Transportation Projects and is listed by WSDOT as a junior author for preparing Biological Assessments.