US Army Corps
of Engineers
Seattle District

Public Notice

Application for a Department of the Army Permit

US Army Corps of Engineers
Regulatory Branch
Post Office Box 3755
Seattle, WA 98124-3755
Telephone (206) 316-3360
Attn: Mr. Rory W. Lee,
Project Manager

Public Notice Date: March 2, 2021
Expiration Date: April 1, 2021

Reference No.: NWS-2020-535-WRD
Name: King County Wastewater
Treatment Division (Coal Creek Trunk)

Interested parties are hereby notified that the U.S. Army Corps of Engineers (Corps) have received an application to perform work in waters of the United States as described below and shown on the enclosed drawings dated September 25, 2020.

The Corps will review the work in accordance with Section 404 of the Clean Water Act (CWA). The Washington Department of Ecology (Ecology) will review the work separately pursuant to Section 401 of the CWA, with applicable provisions of State water pollution control laws and the Coastal Zone Management Act.

APPLICANT: King County Wastewater Treatment Division
ATTN: Mr. Jacob Sheppard
201 South Jackson Street, Suite 600
Seattle, Washington 98104-3855
Telephone: (206) 477-5395

LOCATION: In Coal Creek, Tributary 1 (unnamed stream), and adjacent wetlands, at the city of Bellevue, Washington.

WORK: King County Wastewater Division proposes improvements to an existing sewage conveyance system. Facility improvements include replacing the existing Trunk with a new pipe. The new pipe would be installed using trenchless methods where feasible and would follow an arc to the north and east of the Coal Creek ravine. Some segments of the proposed pipe alignment are not suitable for trenchless installation and would be installed using an open-cut method. To continue collecting local flows, King County also proposes to install new local connections, using a combination of open-cut and trenchless methods, and to repurpose a short segment of the existing pipeline into a local line.

PURPOSE: The purpose of the project is to improve regional wastewater treatment.

ADDITIONAL INFORMATION:
The Coal Creek sewer line improvements would be divided into seven construction segments: (1) Eastside Interceptor (ESI), (2) Woodsong Condominiums (Condos), (3) 125th Avenue SE Project Location, (4) Microtunnel Project Location (Microtunnel Location), (5) Forest Drive SE Project Location, (6) South Trunk Connector Project Location (South Trunk Connector), and Spur Project Location (Spur, Spur Location). The proposed project would impact two streams (Coal Creek and Tributary 1) and five wetlands (Wetlands A, D/E, H, I, and J). Aquatic resource impacts are show in the tables below.

Eastside Interceptor (ESI): At the north end of the Project, open-cut trenching would be required to install the replacement sewer from the ESI Connection to the Direct Pipe (DP) receiving pit. This open-cut trench would be

adjacent to an existing gravel access road by Wetland A and alongside a proposed temporary access road through Wetland D/E. The trench will be approximately 7 feet wide and with varying depths that extend 1 foot below the new 36-inch pipe for the Trunk. To avoid impacting Coal Creek while also maintaining the most direct alignment, the replacement sewer would need to cross two wetlands (Wetlands A and D/E).

A temporary turnaround and a temporary paved parking lot will be constructed in the upland between Wetland D/E and the Condos' parking lot. The temporary turnaround and temporary parking lot are currently undergoing design. They will be designed with appropriate stormwater measures, as outlined in the Washington State Department of Ecology's (Ecology) 2019 Stormwater Management Manual for Western Washington. This parking lot will be removed after construction work at the Condos Location is complete.

The proposed wetland mitigation is proposed at this location, affecting Wetland A and Wetland D/E. Refer to the mitigation section below for additional details.

Woodsong Condominiums: King County WTD needs to maintain a connection to a City sewer lateral that currently connects by crossing Coal Creek at the Condos property. King County WTD would remove the Coal Creek sewer pipe crossing at this location and provide stream restoration at this location. There are no wetlands at this location. The Project would install a new lateral connection using open-cut methods from the DP receiving pit to a new maintenance hole located south of the Condos and north of Coal Creek and then to the existing Trunk along 125th Avenue SE. The new sewer lateral would not cross Coal Creek, and its installation would not impact Coal Creek. One existing maintenance hole will be decommissioned at this location.

Once the new Trunk is online, the Project proposes to remove the section of existing pipe that crosses below Coal Creek. Large woody material (LWM) and Fabric Encapsulated Soil Lifts (FESL) structures would be installed along the right bank of Coal Creek to provide both bank stabilization and habitat improvements.

125th Avenue SE: The Project would replace part of the existing Trunk along 125th Avenue SE with a new, smaller-diameter pipe. Decreasing the pipe size will maintain flushing velocities and capacity to reflect the reduction in the load, since this line will now serve just the residences along 125th Avenue SE. The upstream pipes at existing maintenance hole R13-09 would be plugged with concrete. These activities would be contained to the existing road prism and to the compacted maintenance turnaround area at Anna's Pond. Anna's Pond serves as one of the City's sediment catchment ponds and both receives flow from Coal Creek and drains to Coal Creek. No work within wetlands, streams, or floodplains is proposed at this location.

Microtunnel Location: Along Coal Creek Parkway SE, a vehicle pullout would be used for staging, and a new City lateral would be installed using open-cut methods to replace the existing local sewer connection. It would be connected to the proposed Trunk through microtunneling at the two work areas along Coal Creek Parkway SE. Activities in these areas would consist of vegetation clearing, grading, installing a temporary driving surface using crushed rock, both open-trench and trenchless installation of the lateral and lateral connection as described, and two microtunnel shafts. Several new maintenance holes would be installed along the way. The work at Forest Drive SE would consist of permanent parking and temporary staging to construct the parking lot, designed to provide replacement parking for when the Upper Coal Creek Trail West Trailhead parking lot at the Spur is closed.

The work areas would also use stormwater best management practices (BMP) as applicable. A Temporary Erosion and Sediment Control (TESC) Plan and a Stormwater Pollution Prevention Plan (SWPPP) would be prepared at later design stages in advance of construction. One existing maintenance hole would be removed in this location as part of the Project Trunk. No work within wetlands, streams, or floodplains is proposed at these locations.

South Trunk Connector: The Project would install sewer connections at the Upper Coal Creek Trail West Trailhead parking lot. This work is adjacent to Coal Creek, Tributary 2, Tributary 0272, Wetland A1, Wetland B, and Wetland 2. The South Trunk Connector would be installed with open-cut trenching methods from the DP launch

pit and south alongside Coal Creek Parkway SE. The work would be contained to the existing road right-of-way with minimal vegetation clearing and ground disturbance. The Tributary 2 culvert at the parking lot would be avoided by leaving the pipe in place, supporting it, and trenching under the existing pipe. The new pipe would be installed deep enough to avoid precluding future fish passage culvert replacement at this location. No impacts to streams, wetlands, or the Coal Creek 100-year floodplain are proposed at the South Trunk Connector.

Spur, Spur Location: The Project would use open-cut methods from the DP launch pit in the Upper Coal Creek Trail West Trailhead parking lot alongside the Coal Creek Trail from the parking lot to the existing maintenance hole R13-25A in Wetland J to provide the connection to the existing sewer trunk. Several existing maintenance holes and sections of sewer trunk will be removed in this location. Including, the riprap associated with maintenance hole 25b, which was permitted under Corps reference number NWS-2020-605.

A 20-foot temporary construction access road is needed to both allow heavy equipment access and for the open-cut trench. The Spur has steep slopes that create a pinch point with Coal Creek at the trail between Tributary 1 and Wetland J. To construct a temporary construction road requires balancing impacts to the steep slopes and to Coal Creek. To stabilize the work and to minimize impacts in Coal Creek, the Project will cut into the steep slope to install a retaining wall on the upland side of the temporary access road, away from Coal Creek. Once construction is complete, the temporary access road will be converted into a permanent ADA-accessible trail connection and maintenance access road about 10 feet wide on average. The maintenance hole at Wetland J will also be widened to support the larger-diameter pipe for the proposed Trunk. Other maintenance holes will be decommissioned by either plugging with concrete or by removing cones and plugging with concrete. Cones refer to the part of a maintenance hole that transitions to smaller-diameter risers at the top of the maintenance hole.

Impacts to streams: Temporarily fill and excavation would occur in up to 428 square feet of regulated waters of the U.S. for up to 5 months. Temporary and permanent impacts for each waterbody are listed in the table below.

Stream Reach	Impact Area[(1)] (square feet)	Impact Length (linear feet)	Work Area	Primary Activity Resulting in Impact
Construction – Temporary Impacts				
Tributary 1	161	20	Spur	Temporary bypass for construction access road
Stream Restoration – Permanent Impacts (Beneficial Improvements)				
Tributary 1	750	26	Spur	Relocation about 10 feet to the right of the existing tributary.
Coal Creek – Condos	1,010	161	Condos	Stream restoration grading, FESL and LWM structures, streambed mix
Coal Creek – Spur	5,326	222	Spur	Stream restoration grading, FESL and LWM structures, streambed mix
Stream Restoration – Temporary Impacts (Beneficial Improvements)				
Coal Creek – Condos	3,525	135	Condos	Temporary diversion for in-stream work; pipe excavation; construction access
Coal Creek – Spur	2,285	132	Spur	Temporary diversion for in-stream work; pipe excavation; construction access

Wetland impacts: Construction would result permanent wetland impacts and long term temporary (greater than 6 months). Temporary and permanent wetland impacts are listed in the table below.

Wetland Name	Category[1]/ Class[2]	Impact Area[3] (square feet)	Impact Duration	Work Area	Primary Activity Resulting in Impact
Construction – Permanent Impacts					
A	III/PSS	261	Permanent	ESI Connection	Maintenance gravel access pad
J	III/PEM	28	Permanent	Spur	Widen the existing maintenance hole substructure
Construction – Short-term Temporary Impacts					
A	III/PFO and PSS	2,727	Short term <1 year	ESI Connection	Open-cut excavation and temp construction access
H	III/PSS	602	Short term 1-2 years	Spur	Temporary vegetation clearing for construction access
Construction – Long-term Temporary Impacts					
A	III/PFO	659	Long term >2 years	ESI Connection	Temporal loss for tree recruitment 5 feet on-center from proposed Trunk
D/E	II/PFO	16,961	Long term >2 years	ESI Connection	Open-cut excavation, temp construction access, and temporal loss for tree recruitment 5 feet on center from proposed Trunk
J	III/PEM	1,140	Long term >2 years	Spur	Open-cut excavation and temp construction access
Wetland Mitigation and Stream Restoration – Permanent Impacts (Beneficial Improvements)					
H	III/PSS	172	Permanent	Spur	Tributary 1 relocation grading
I	III/PSS	1,238	Permanent	Spur	Coal Creek stream restoration grading, LWM and FESL structures
Wetland Mitigation and Stream Restoration – Short-term Temporary Impacts (Beneficial Improvements)					
A	III/PFO and PSS	39,858	Short term <1 year	Spur	Wetland enhancement site preparation and planting. See **Section 4** for more details.
D/E	II/PFO	69,260	Short term <1 year	Spur	Wetland mitigation site preparation and planting. See **Section 4** for more details.
I	III/PSS	6,527	Short term <1 year	Spur	Open-cut excavation for pipe removal and stream restoration activities

MITIGATION: The applicant has minimized and avoided the environmental impacts of the project to the maximum extent practicable. However, Compensatory mitigation is required for the proposed activities because the actions would result in long term (greater than two years) temporary impacts and permanent impacts, including those associated with maintenance hole 25b (NWS-2020-605). The table below summarizes mitigation type, area, and location of the proposed permittee-responsible mitigation.

Mitigation Type	Mitigation Area (square feet)	Location
Wetland Creation	37,106	ESI Connection
Wetland Enhancement	95,834	ESI Connection
Buffer Enhancement	111,716	ESI Connection
Wetland Restoration In-Place	8,269	Sitewide
Buffer Restoration in-place	50,965	Sitewide

ENDANGERED SPECIES: The Endangered Species Act (ESA) requires federal agencies to consult with the National Marine Fisheries Service (NMFS) and/or U.S. Fish and Wildlife Service (USFWS) pursuant to Section 7 of the ESA on all actions that may affect a species listed (or proposed for listing) under the ESA as threatened or endangered or any designated critical habitat. After receipt of comments from this public notice, Corps will evaluate the potential impacts to proposed and/or listed species and their designated critical habitat.

ESSENTIAL FISH HABITAT: The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996, requires all Federal agencies to consult with the NMFS on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH).

If the Corps determines that the proposed action may adversely affect EFH for federally managed fisheries in Washington waters, the Corps will initiate EFH consultation with the NMFS. The Corps' final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

CULTURAL RESOURCES: The Corps invites responses to this public notice from Native American Tribes or tribal governments; Federal, State, and local agencies; historical and archeological societies; and other parties likely to have knowledge of or concerns regarding historic properties and sites of religious and cultural significance at or near the project area. After receipt of comments from this public notice, the Corps will evaluate potential impacts and consult with the State Historic Preservation Officer and Native American Tribes in accordance with Section 106 of the National Historic Preservation Act, as appropriate.

PUBLIC HEARING: Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

EVALUATION – CORPS: The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people.

The Corps is soliciting comments from the public; Native American Nations or tribal governments; Federal, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition

or deny a permit for the work. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

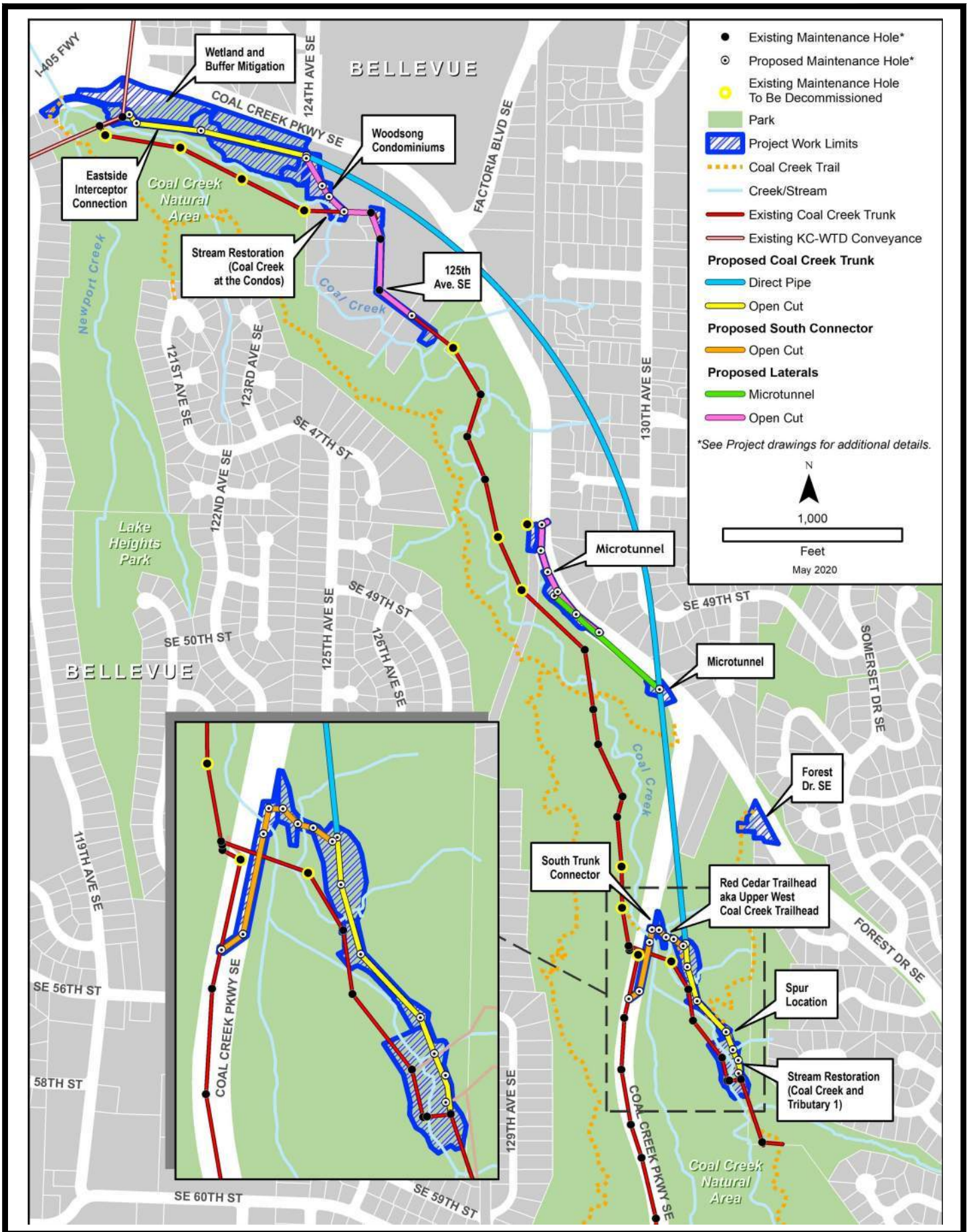
The described discharge will be evaluated for compliance with guidelines promulgated by the EPA under authority of Section 404(b)(1) of the CWA. These guidelines require an alternatives analysis for any proposed discharge of dredged or fill material into waters of the United States.

SOURCE OF FILL MATERIAL: The source of the fill material would be from approved commercial operations.

COMMENT AND REVIEW PERIOD: Conventional mail or e-mail comments on this public notice will be accepted and made part of the record and will be considered in determining whether authorizing the work would not be contrary to the public interest. In order to be accepted, e-mail comments must originate from the author's e-mail account and must include on the subject line of the e-mail message the permit applicant's name and reference number as shown below. All e-mail comments should be sent to rory.w.lee@usace.army.mil. Conventional mail comments should be sent U.S. Army Corps of Engineers, Regulatory Branch, Post Office Box 3755, Seattle, Washington, 98124-3755. Either conventional mail or e-mail comments must include the permit applicant's name and reference number, as shown below, and the commenter's name, address, and phone number. All comments received will become part of the administrative record and are subject to public release under the Freedom of Information Act including any personally identifiable information such as names, phone numbers, and addresses. All comments whether conventional mail or e-mail must reach this office, no later than the expiration date of this public notice to ensure consideration. Please include the following name and reference number:

To ensure proper consideration of all comments, responders must include the following name and reference number in the text of their comments King County Wastewater Division (Coal Creek Trunk Upgrade); NWS-2020-535-WRD.

Encl: Figures (29)



REFERENCE:

APPLICANT: JACOB SHEPPARD; KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTERWATER TREATMENT DIVISION
ADJACENT PROPERTY OWNERS: SEE JARPA FORM

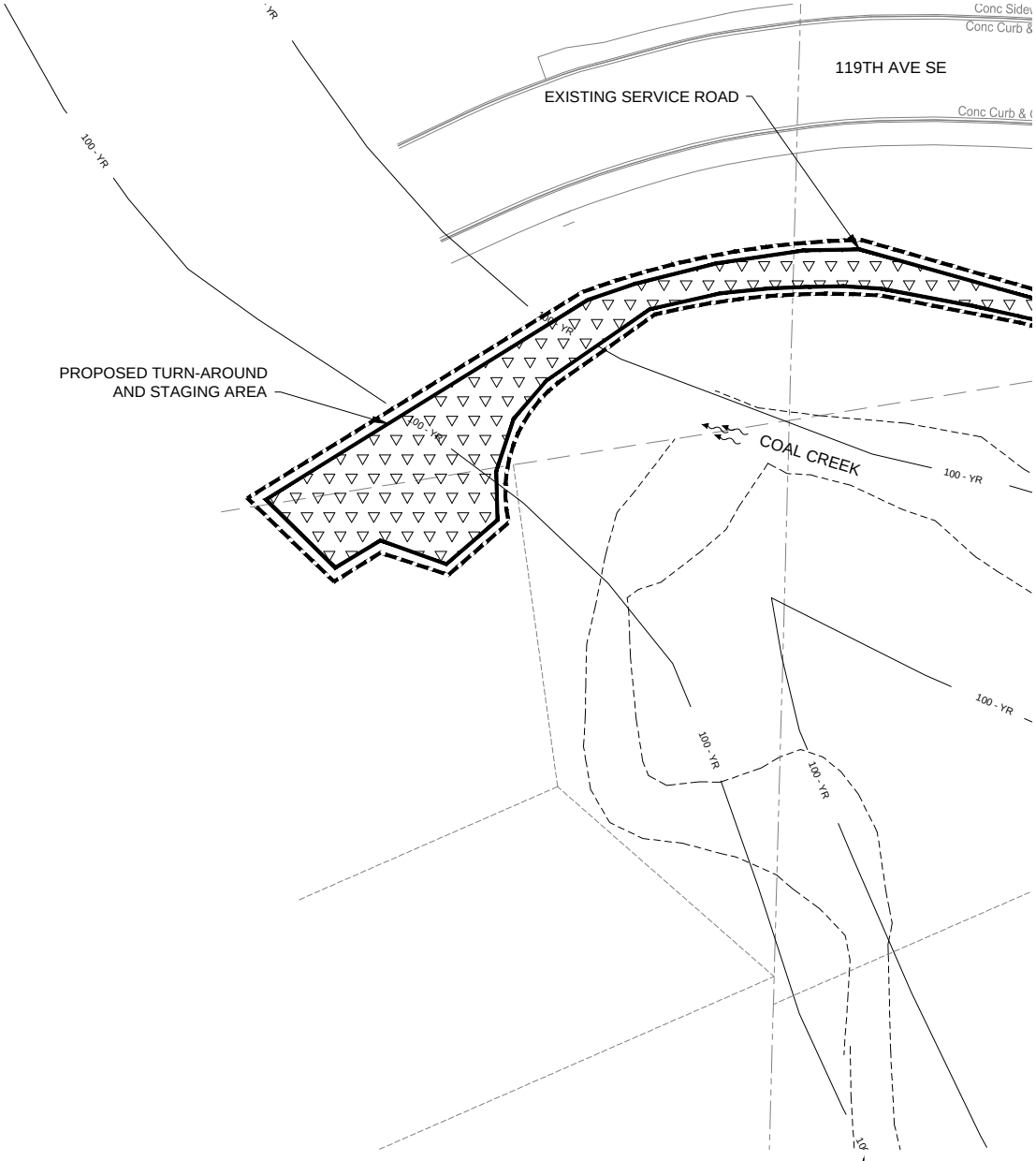
LOCATION: COAL CREEK NATURAL AREA

PARCELS: SEE JARPA FORM
LAT/LONG: 47.567050N / -122.178972W

SHEET 1 OF 29 DATE: 09/25/2020

PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE
IN: COAL CREEK; WETLANDS AND TRIBUTARIES

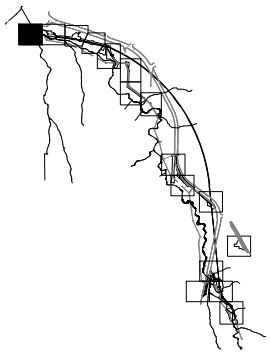
NEAR/AT: BELLEVUE
COUNTY: KING
STATE: WA



SENSITIVE AREA INFO		IMPACTS		
NAME	SIZE	PERMANENT	TEMPORARY - SHORT TERM	TEMPORARY - LONG TERM
NO IMPACTS TO STREAMS OR WETLANDS ANTICIPATED ON THIS SHEET				

GENERAL NOTES:

1. CONSTRUCTION LIMITS FOR STAGING AND TURN-AROUND PURPOSES ONLY.



WETLANDS
CONSTRUCTION LIMITS
SANITARY SEWER PIPE
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DELINEATED OHWM
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100-YR FEMA 100-YR FLOODPLAIN EFFECTIVE 5/16/1995

PERMANENT WETLAND IMPACT
SHORT TERM TEMPORARY PSS WETLAND IMPACT
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STAGING AREA
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LOCATION: COAL CREEK NATURAL AREA ESI CONNECTION
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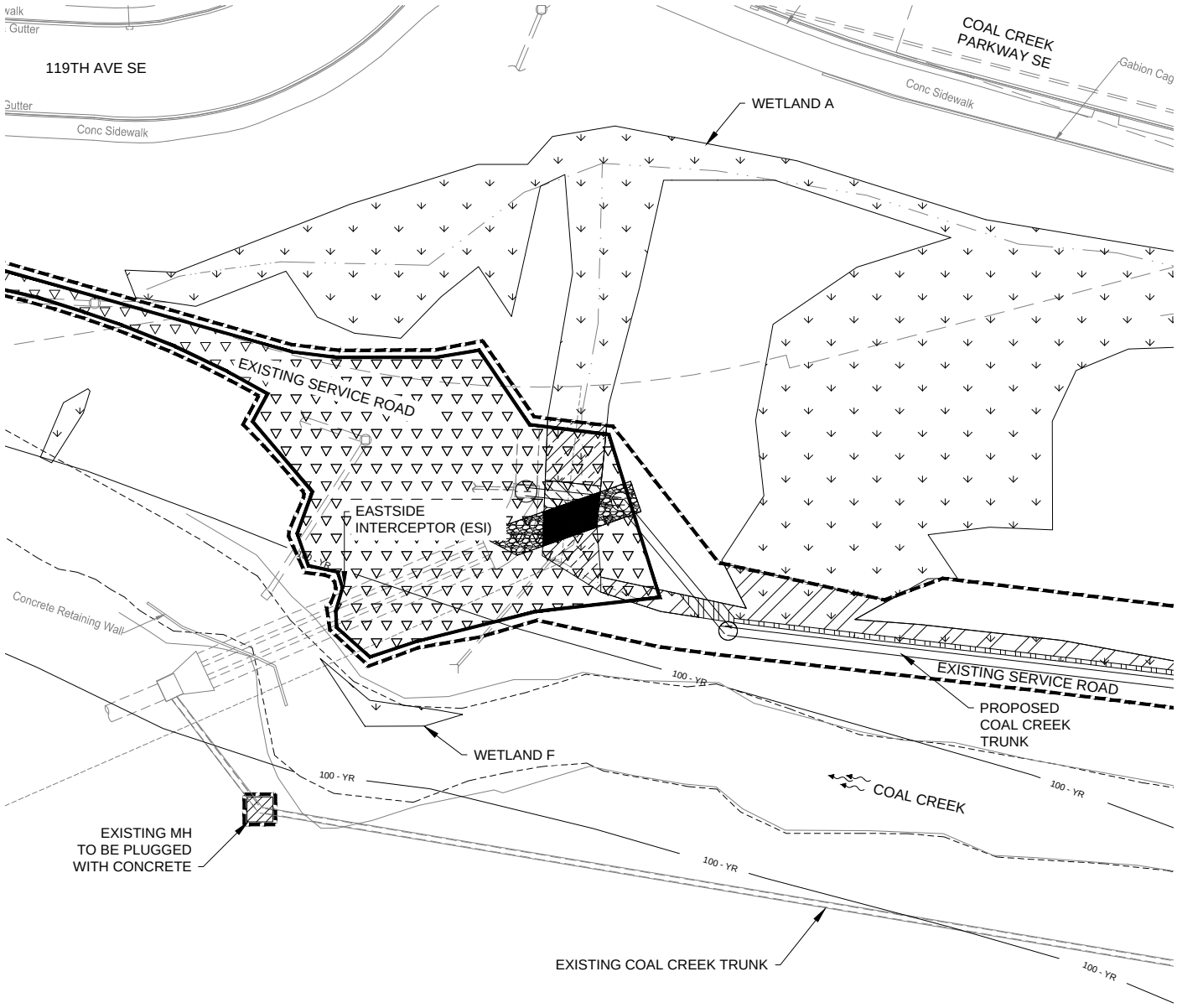
SHEET 2 OF 29 DATE: 09/25/2020

PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE
IN: COAL CREEK; WETLANDS AND TRIBUTARIES

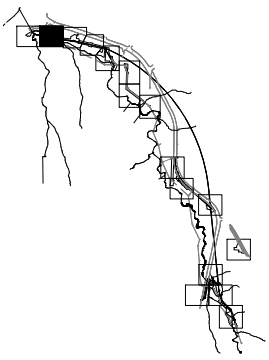
NEAR/AT: BELLEVUE
COUNTY: KING
STATE: WA



SENSITIVE AREA INFO		IMPACTS		
NAME	SIZE	PERMANENT	TEMPORARY - SHORT TERM	TEMPORARY - LONG TERM
WETLAND A	0.921 AC	261 SF	2,727 SF	659 SF
WETLAND F	0.051 AC	IMPACTS TO WETLAND F ARE NOT ANTICIPATED DURING CONSTRUCTION		

N

0 30 60 Feet



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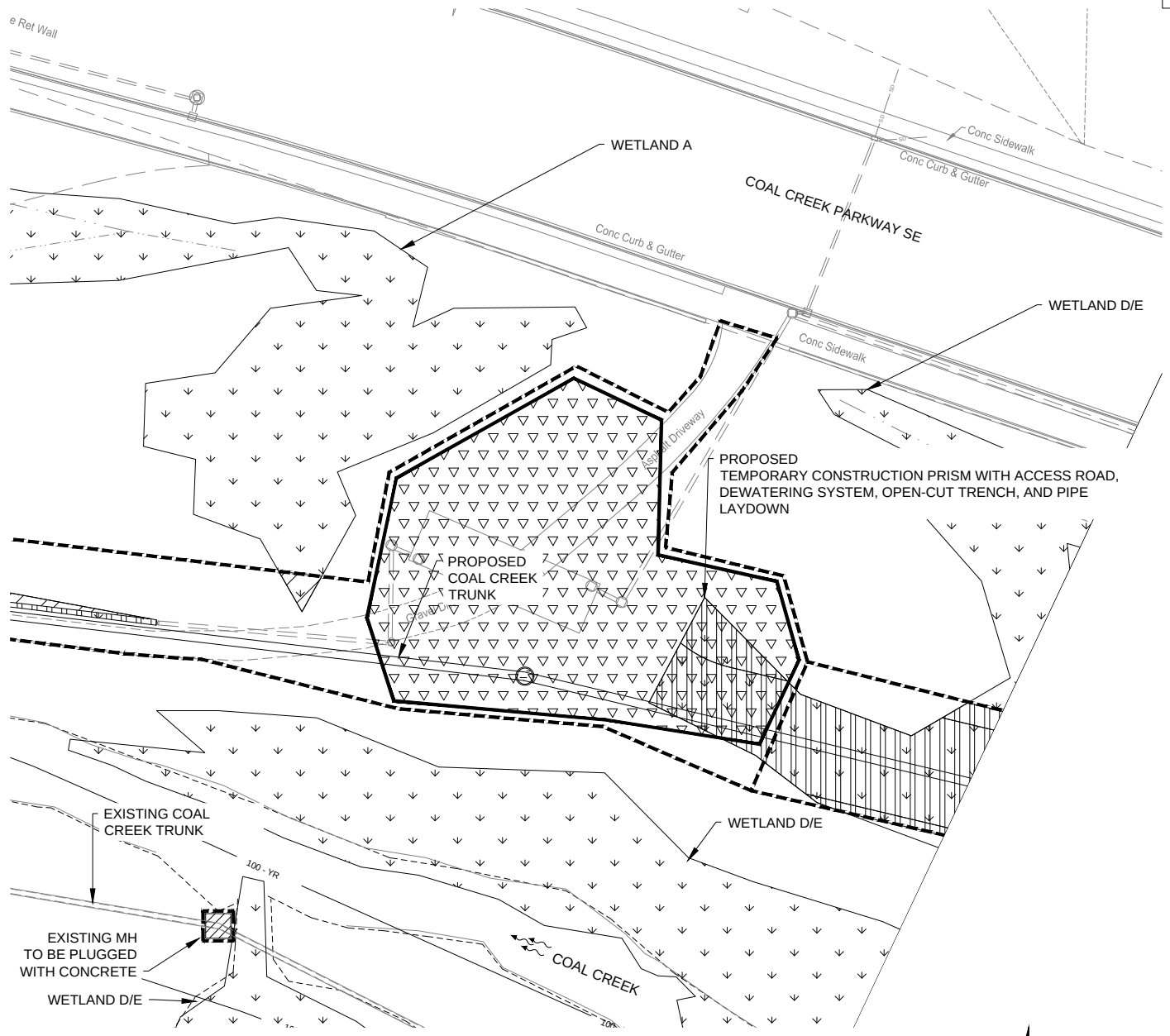
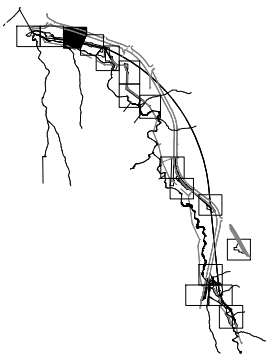


SENSITIVE AREA INFO		IMPACTS		
NAME	SIZE	PERMANENT	TEMPORARY - SHORT TERM	TEMPORARY - LONG TERM
WETLAND A	0.921 AC	SEE SHEET 3 FOR IMPACTS		
WETLAND D/E	1.59 AC	--	--	16,961 SF

N

0 30 60 Feet



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SHEET 4 OF 29 DATE: 09/25/2020

PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE
IN: COAL CREEK; WETLANDS AND TRIBUTARIES

NEAR/AT: BELLEVUE
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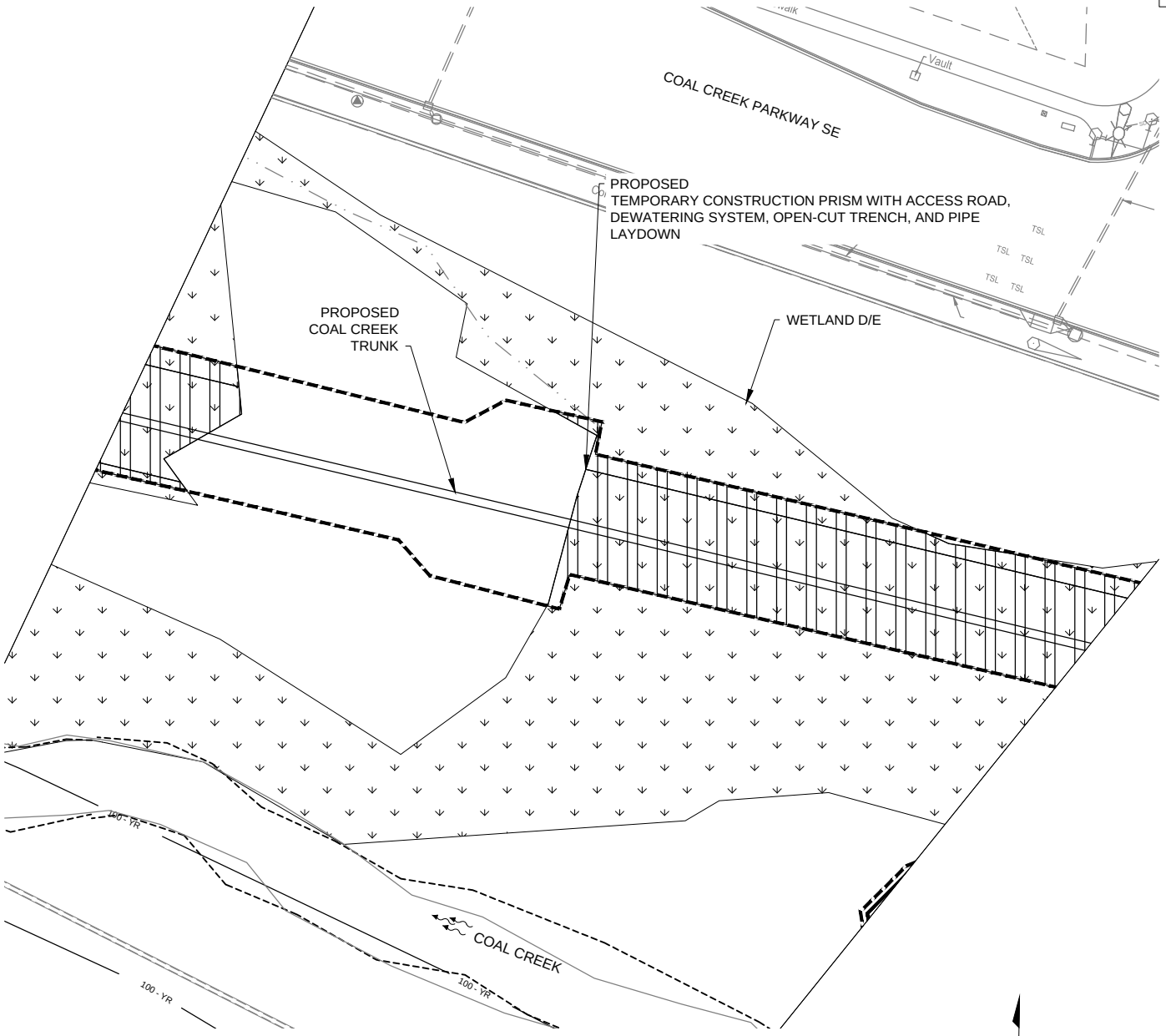

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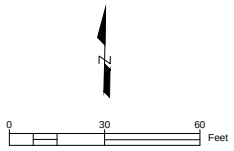
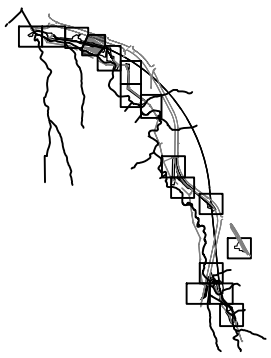
WETLAND D/E	1.59 AC	SEE SHEET 4 FOR IMPACTS		





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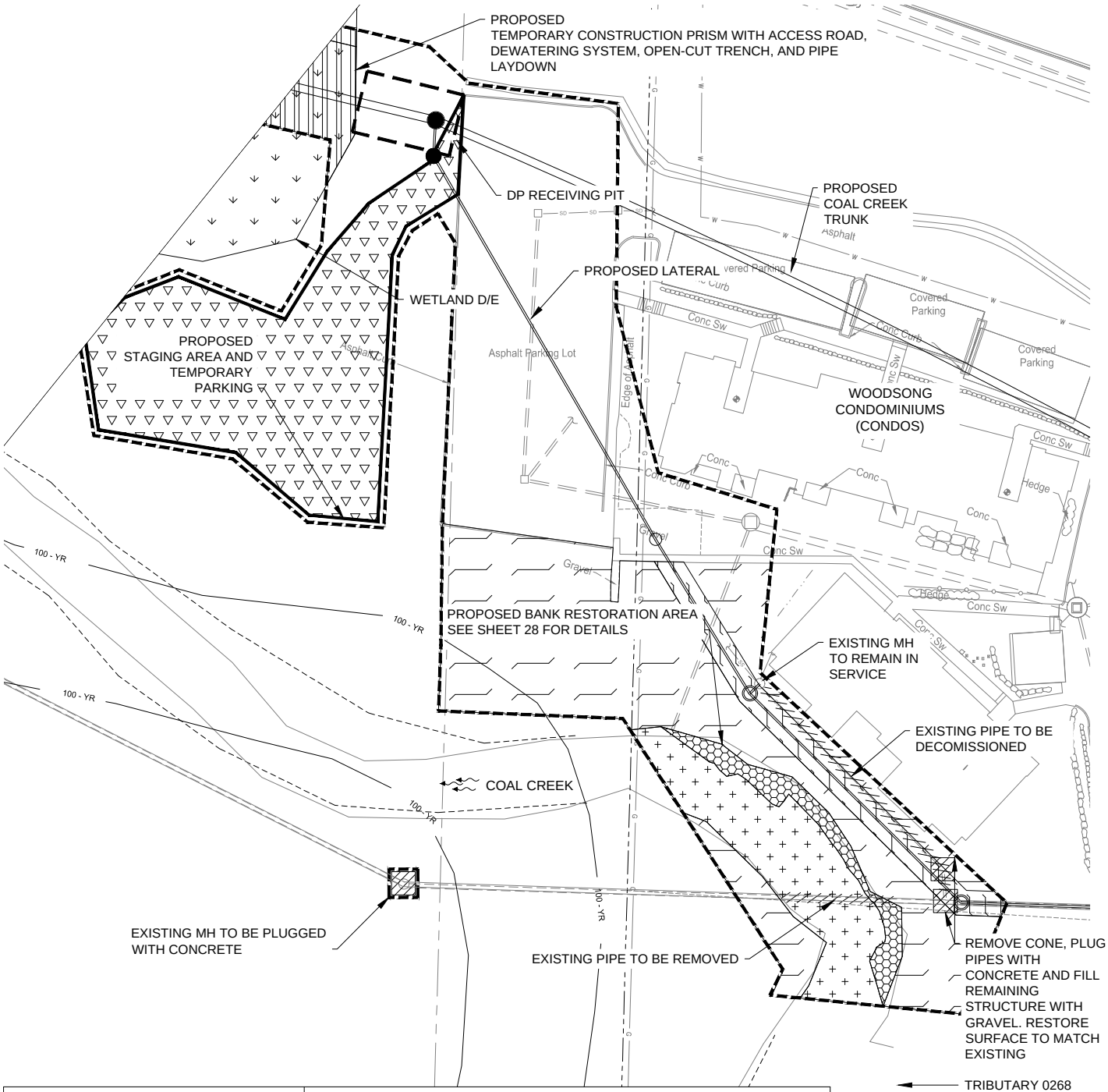

SENSITIVE AREA INFO		IMPACTS		
NAME	SIZE	PERMANENT	TEMPORARY - SHORT TERM	TEMPORARY - LONG TERM
COAL CREEK	--	1,010 SF (161 LF)	3,524 SF (135 LF)	--
TRIBUTARY 0268	--	NO IMPACTS ANTICIPATED		
WETLAND D/E	1.59 AC	SEE SHEET 4 FOR IMPACTS		

GENERAL NOTES:

1. COAL CREEK IMPACTS ARE FOR STREAM RESTORATION (BENEFICIAL IMPROVEMENTS)..

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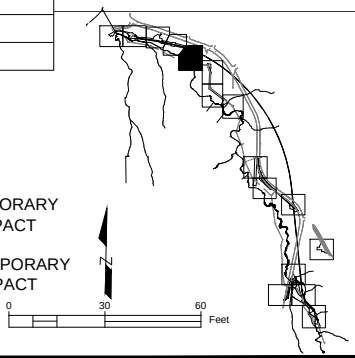

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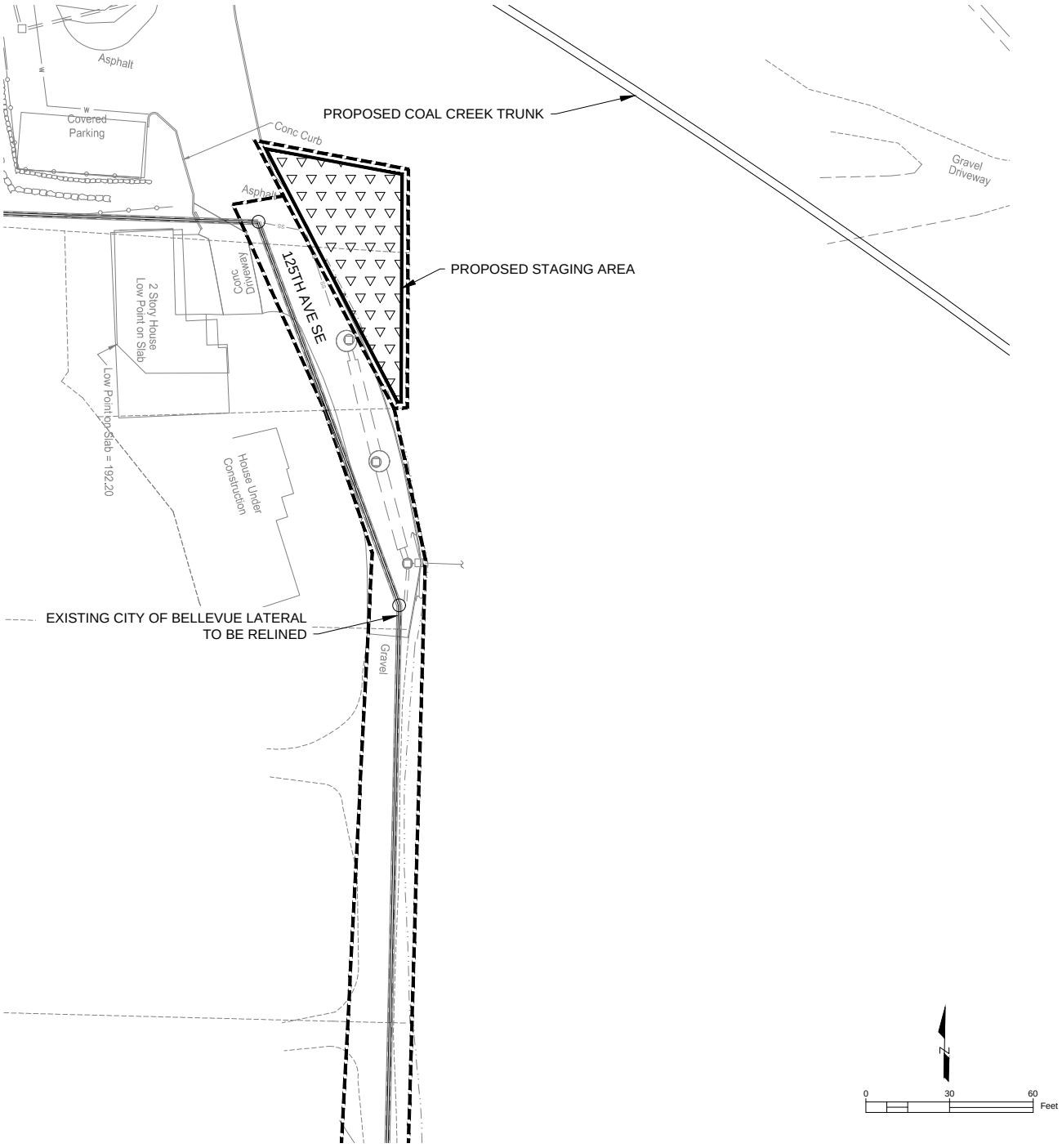
APPLICANT: JACOB SHEPPARD, KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTEWATER TREATMENT DIVISION
ADJACENT PROPERTY OWNERS: SEE JARPA FORM

LOCATION: COAL CREEK NATURAL AREA
CONDOS LOCATION
PARCELS: SEE JARPA FORM
LAT/LONG: 47.567050N / -122.178972W

 DATE: 09/25/2020

PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE
IN: COAL CREEK; WETLANDS AND TRIBUTARIES

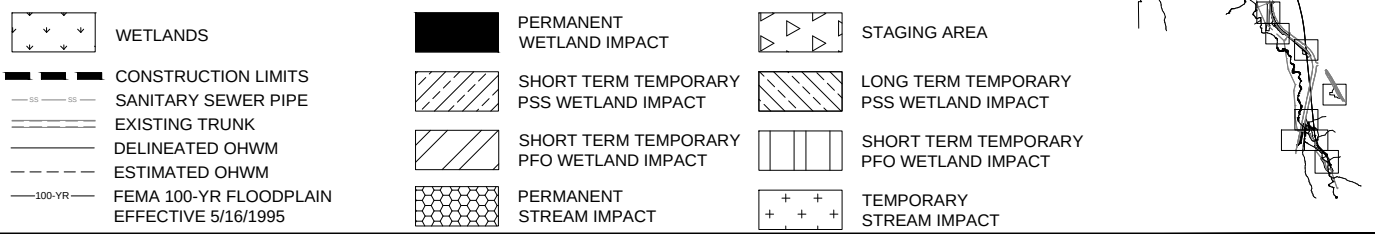
NEAR/AT: BELLEVUE
COUNTY: KING
STATE: WA



SENSITIVE AREA INFO		IMPACTS		
NAME	SIZE	PERMANENT	TEMPORARY - SHORT TERM	TEMPORARY - LONG TERM
NO IMPACTS TO STREAMS OR WETLANDS ANTICIPATED ON THIS SHEET				

GENERAL NOTE:

1. NO WATERS OF THE U.S. ARE LOCATED WITHIN THE PROJECT AREA.



REFERENCE:

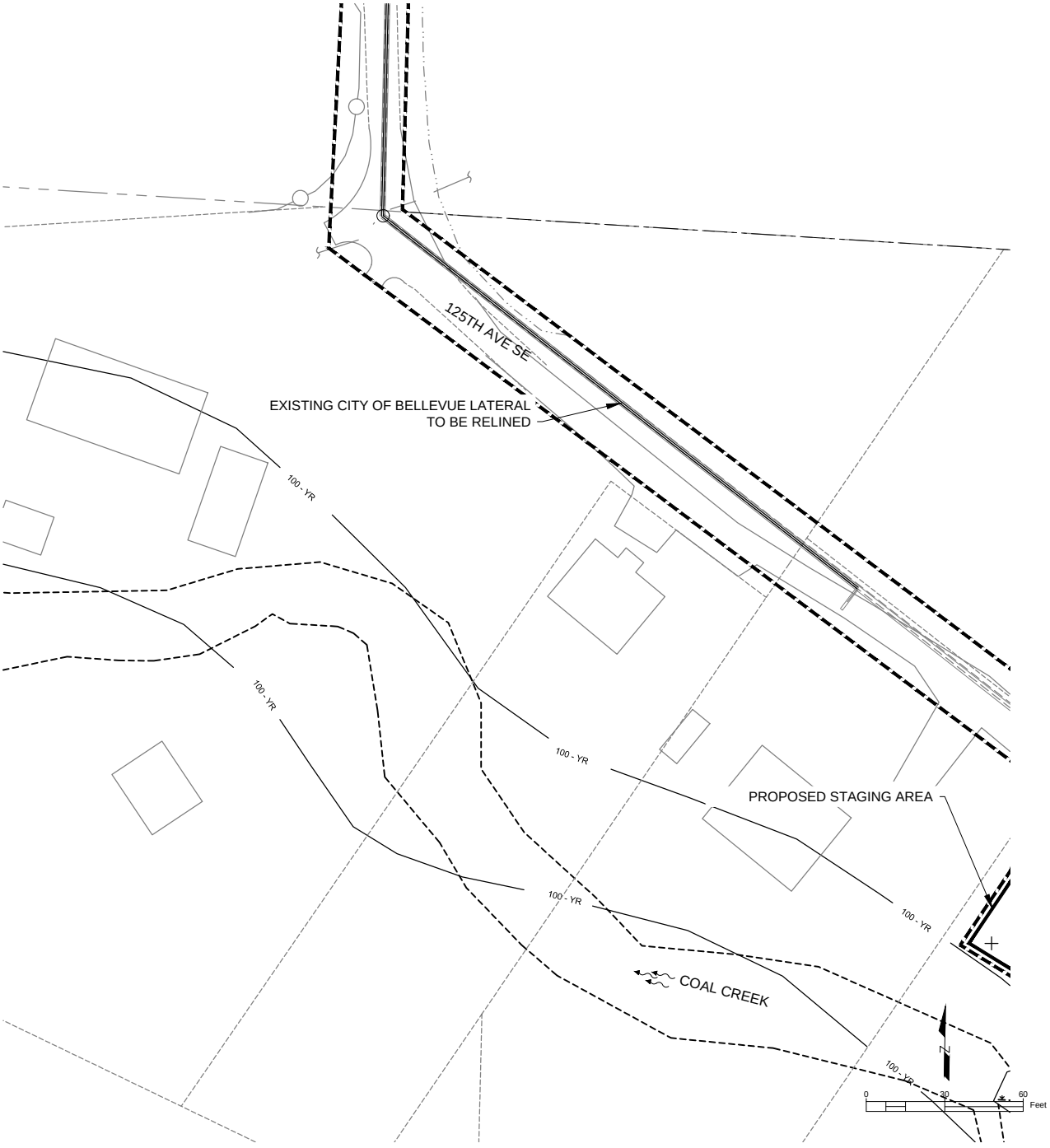
APPLICANT: JACOB SHEPPARD, KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTEWATER TREATMENT DIVISION
ADJACENT PROPERTY OWNERS: SEE JARPA FORM

LOCATION: COAL CREEK NATURAL AREA
125TH AVENUE SE
PARCELS: SEE JARPA FORM
LAT/LONG: 47.567050N / -122.178972W

SHEET 7 OF 29 DATE: 09/25/2020

PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE
IN: COAL CREEK; WETLANDS AND TRIBUTARIES

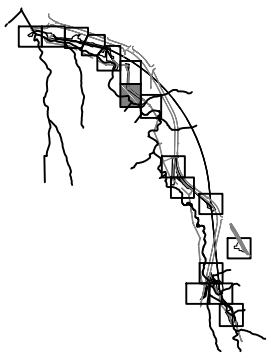
NEAR/AT: BELLEVUE
COUNTY: KING
STATE: WA



SENSITIVE AREA INFO		IMPACTS		
NAME	SIZE	PERMANENT	TEMPORARY - SHORT TERM	TEMPORARY - LONG TERM
NO IMPACTS TO STREAMS OR WETLANDS ANTICIPATED ON THIS SHEET				

GENERAL NOTE:

1. NO WATERS OF THE U.S. ARE LOCATED WITHIN THE PROJECT AREA.



WETLANDS
CONSTRUCTION LIMITS
SANITARY SEWER PIPE
EXISTING TRUNK
DELINEATED OHWM
ESTIMATED OHWM
100-YR FEMA 100-YR FLOODPLAIN EFFECTIVE 5/16/1995
PERMANENT WETLAND IMPACT
SHORT TERM TEMPORARY PSS WETLAND IMPACT
SHORT TERM TEMPORARY PFO WETLAND IMPACT
PERMANENT STREAM IMPACT
STAGING AREA
LONG TERM TEMPORARY PSS WETLAND IMPACT
SHORT TERM TEMPORARY PFO WETLAND IMPACT
TEMPORARY STREAM IMPACT

REFERENCE:

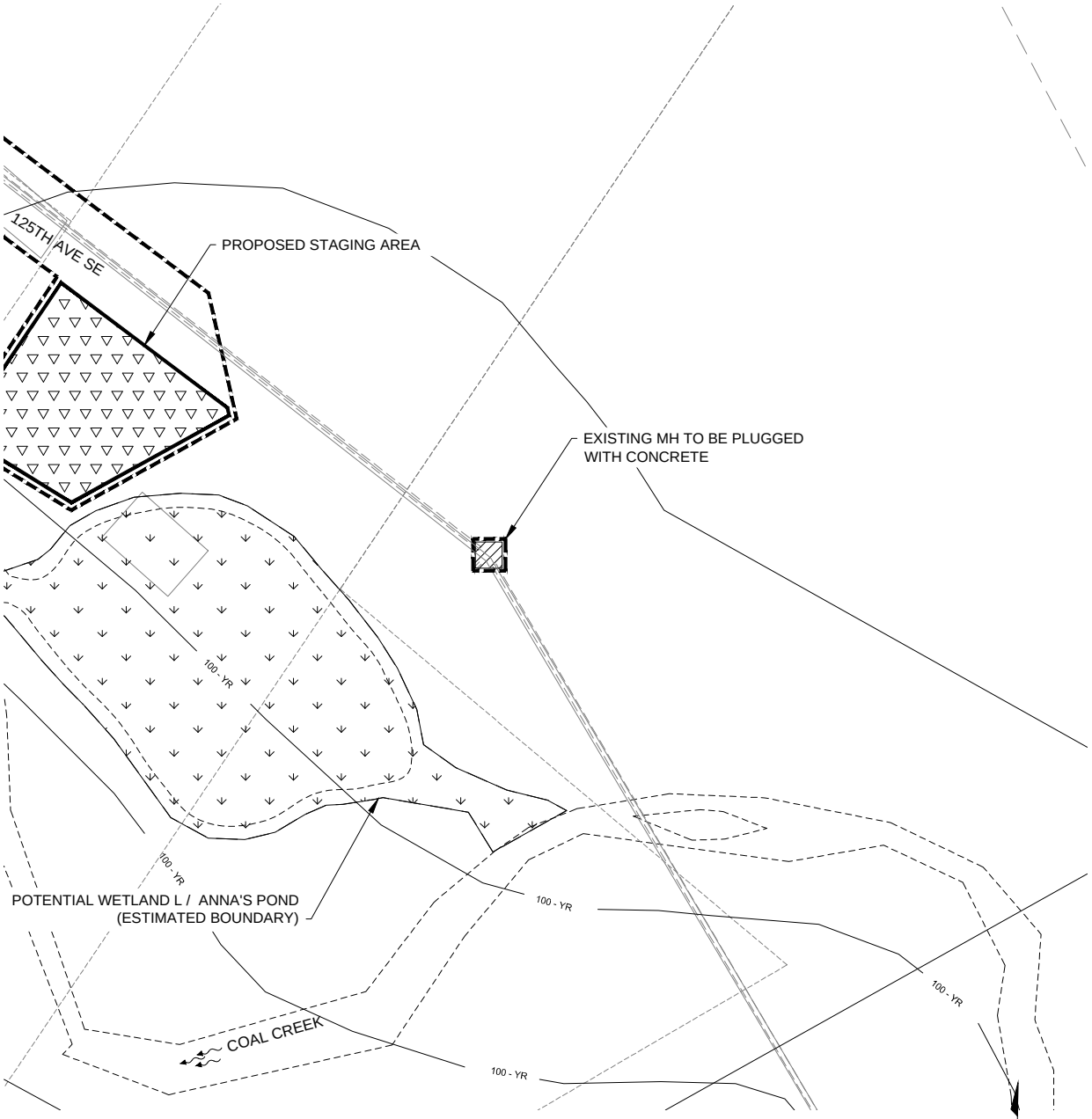
APPLICANT: JACOB SHEPPARD, KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTEWATER TREATMENT DIVISION
ADJACENT PROPERTY OWNERS: SEE JARPA FORM

LOCATION: COAL CREEK NATURAL AREA
125TH AVENUE SE
PARCELS: SEE JARPA FORM
LAT/LONG: 47.567050N / -122.178972W

SHEET 8 OF 29 DATE: 09/25/2020

PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE
IN: COAL CREEK; WETLANDS AND TRIBUTARIES

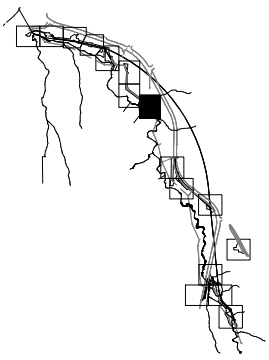
NEAR/AT: BELLEVUE
COUNTY: KING
STATE: WA



SENSITIVE AREA INFO		IMPACTS		
NAME	SIZE	PERMANENT	TEMPORARY - SHORT TERM	TEMPORARY - LONG TERM
NO IMPACTS TO STREAMS OR WETLANDS ANTICIPATED ON THIS SHEET				

GENERAL NOTE:

1. NO WATERS OF THE U.S. ARE LOCATED WITHIN THE PROJECT AREA.



WETLANDS
CONSTRUCTION LIMITS
SANITARY SEWER PIPE
EXISTING TRUNK
DELINEATED OHWM
ESTIMATED OHWM
100-YR FEMA 100-YR FLOODPLAIN EFFECTIVE 5/16/1995

PERMANENT WETLAND IMPACT
SHORT TERM TEMPORARY PSS WETLAND IMPACT
SHORT TERM TEMPORARY PFO WETLAND IMPACT
PERMANENT STREAM IMPACT

STAGING AREA
LONG TERM TEMPORARY PSS WETLAND IMPACT
SHORT TERM TEMPORARY PFO WETLAND IMPACT
TEMPORARY STREAM IMPACT

REFERENCE:

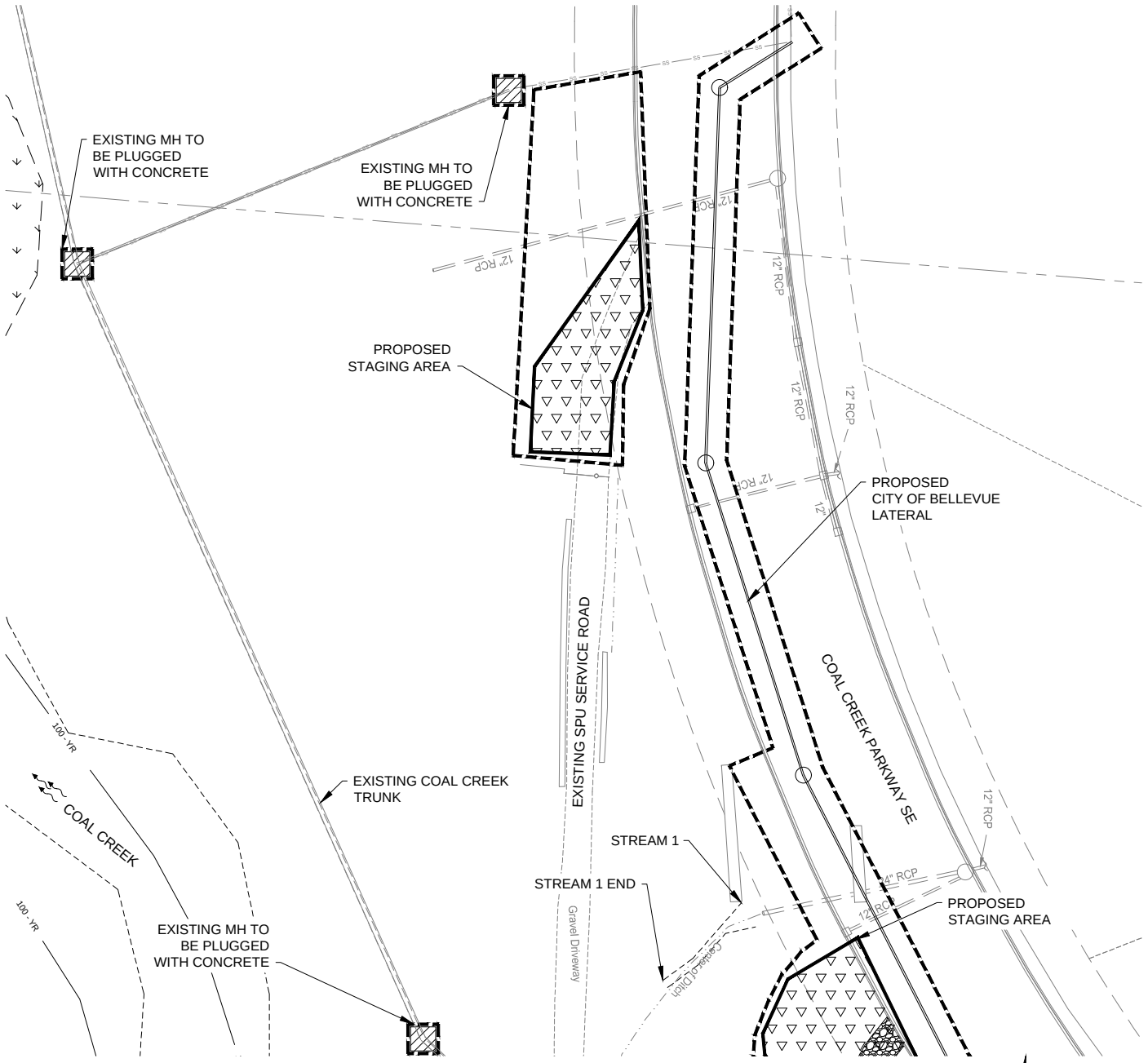
APPLICANT: JACOB SHEPPARD, KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTEWATER TREATMENT DIVISION
ADJACENT PROPERTY OWNERS: SEE JARPA FORM

LOCATION: COAL CREEK NATURAL AREA
125TH AVENUE SE
PARCELS: SEE JARPA FORM
LAT/LONG: 47.567050N / -122.178972W

SHEET 9 OF 29 DATE: 09/25/2020

PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE
IN: COAL CREEK; WETLANDS AND TRIBUTARIES

NEAR/AT: BELLEVUE
COUNTY: KING
STATE: WA



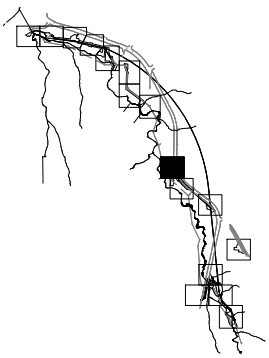
SENSITIVE AREA INFO		IMPACTS		
NAME	SIZE	PERMANENT	TEMPORARY - SHORT TERM	TEMPORARY - LONG TERM
NO IMPACTS TO STREAMS OR WETLANDS ANTICIPATED ON THIS SHEET				

N

0 30 60 Feet

GENERAL NOTE:

1. NO WATERS OF THE U.S. ARE LOCATED WITHIN THE PROJECT AREA.



WETLANDS
CONSTRUCTION LIMITS
SANITARY SEWER PIPE
EXISTING TRUNK
DELINEATED OHWM
ESTIMATED OHWM
100-YR FEMA 100-YR FLOODPLAIN EFFECTIVE 5/16/1995

PERMANENT WETLAND IMPACT
SHORT TERM TEMPORARY PSS WETLAND IMPACT
SHORT TERM TEMPORARY PFO WETLAND IMPACT
PERMANENT STREAM IMPACT

STAGING AREA
LONG TERM TEMPORARY PSS WETLAND IMPACT
SHORT TERM TEMPORARY PFO WETLAND IMPACT
TEMPORARY STREAM IMPACT

REFERENCE:

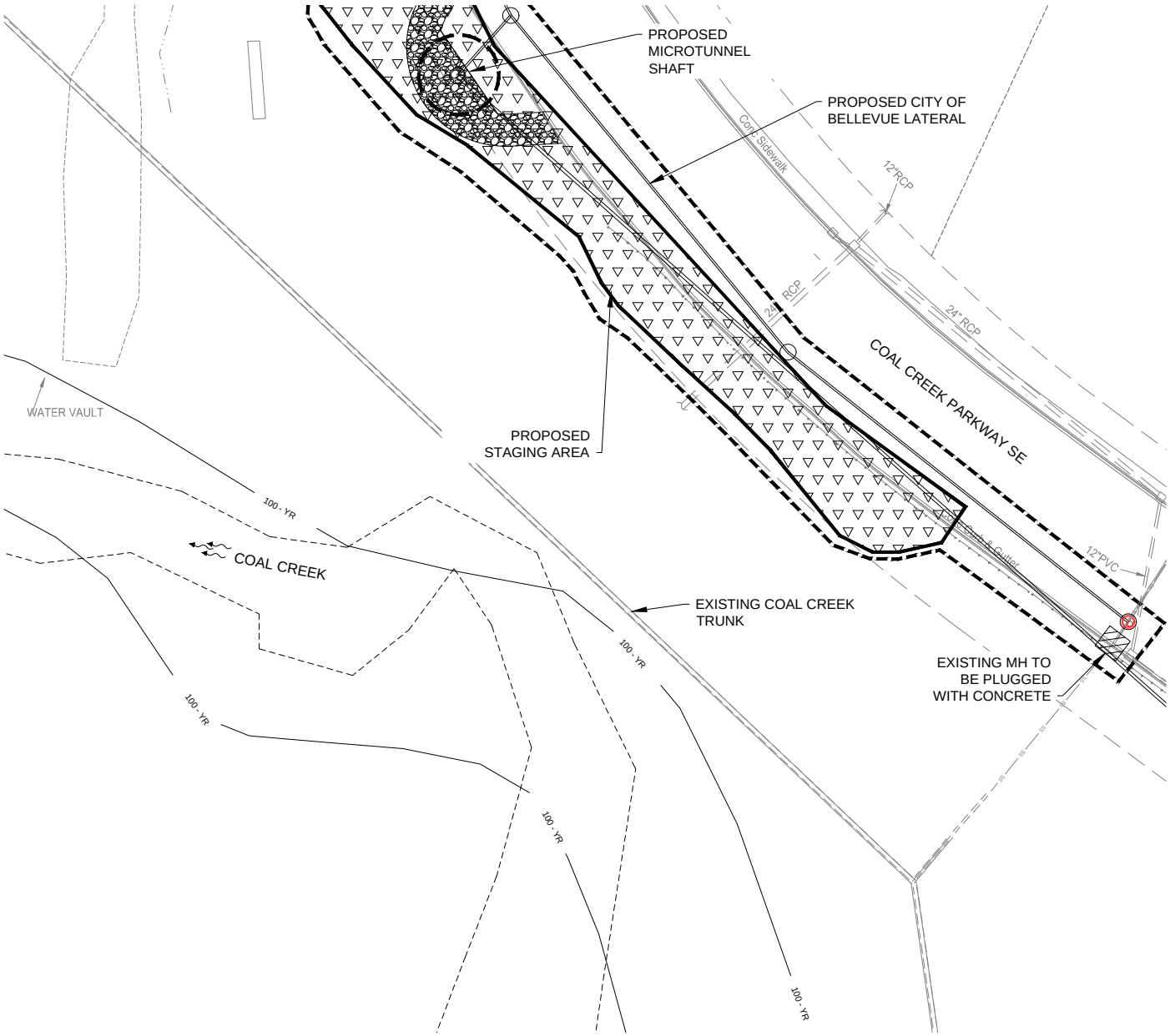
APPLICANT: JACOB SHEPPARD, KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTEWATER TREATMENT DIVISION
ADJACENT PROPERTY OWNERS: SEE JARPA FORM

LOCATION: COAL CREEK NATURAL AREA MICROTUNNEL LOCATION
PARCELS: SEE JARPA FORM
LAT/LONG: 47.567050N / -122.178972W

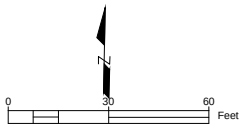
SHEET 10 OF 29 DATE: 09/25/2020

PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE
IN: COAL CREEK; WETLANDS AND TRIBUTARIES

NEAR/AT: BELLEVUE
COUNTY: KING
STATE: WA

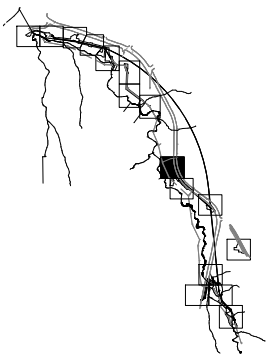


SENSITIVE AREA INFO		IMPACTS		
NAME	SIZE	PERMANENT	TEMPORARY - SHORT TERM	TEMPORARY - LONG TERM
NO IMPACTS TO STREAMS OR WETLANDS ANTICIPATED ON THIS SHEET				



GENERAL NOTE:

1. NO WATERS OF THE U.S. ARE LOCATED WITHIN THE PROJECT AREA.



WETLANDS
CONSTRUCTION LIMITS
SANITARY SEWER PIPE
EXISTING TRUNK
DELINEATED OHWM
ESTIMATED OHWM
100-YR FEMA 100-YR FLOODPLAIN EFFECTIVE 5/16/1995

PERMANENT WETLAND IMPACT
SHORT TERM TEMPORARY PSS WETLAND IMPACT
SHORT TERM TEMPORARY PFO WETLAND IMPACT
PERMANENT STREAM IMPACT

STAGING AREA
LONG TERM TEMPORARY PSS WETLAND IMPACT
SHORT TERM TEMPORARY PFO WETLAND IMPACT
TEMPORARY STREAM IMPACT

REFERENCE:

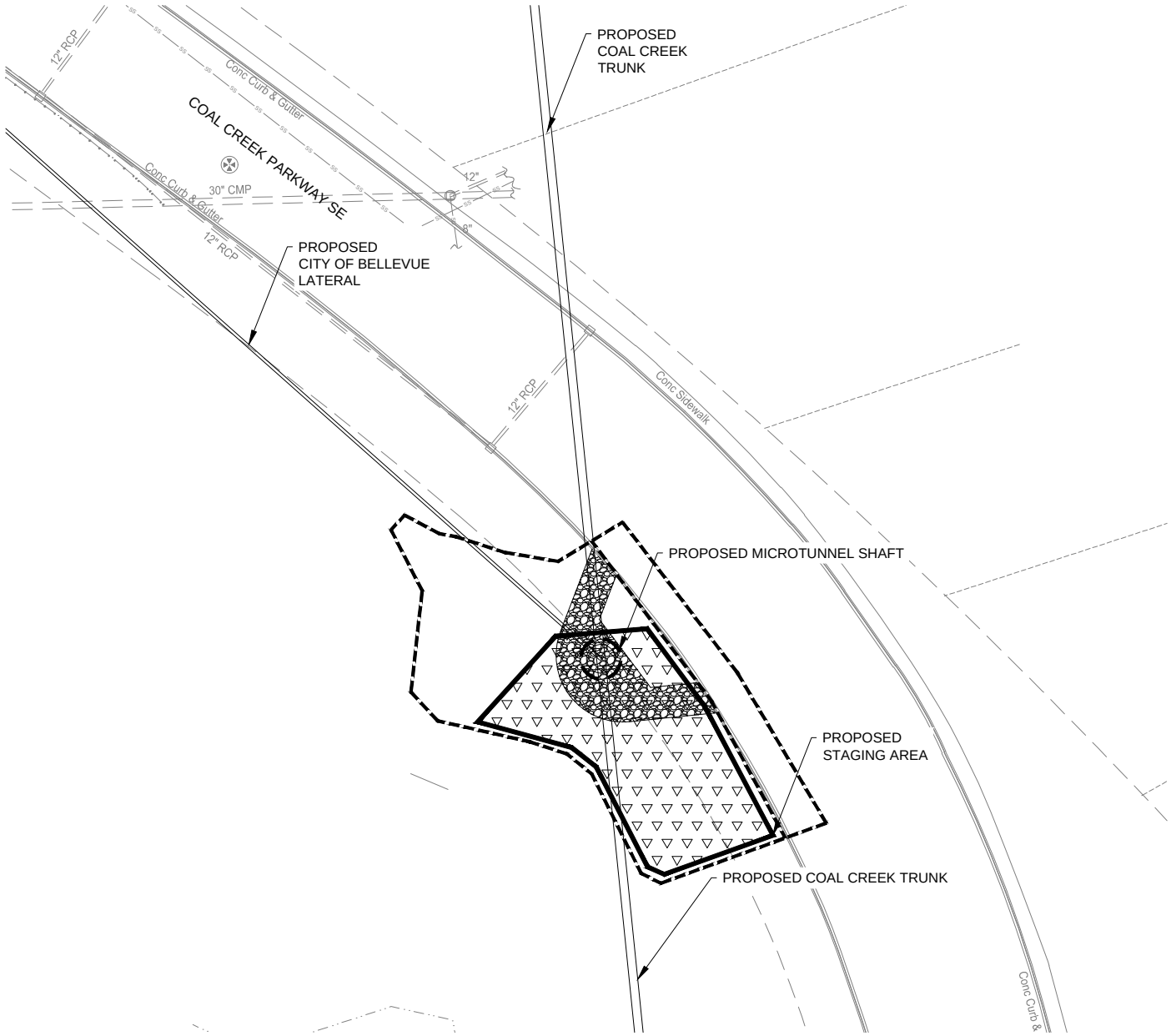
APPLICANT: JACOB SHEPPARD, KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTEWATER TREATMENT DIVISION
ADJACENT PROPERTY OWNERS: SEE JARPA FORM

LOCATION: COAL CREEK NATURAL AREA MICROTUNNEL LOCATION
PARCELS: SEE JARPA FORM
LAT/LONG: 47.567050N / -122.178972W

SHEET 11 OF 29 DATE: 09/25/2020

PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE
IN: COAL CREEK; WETLANDS AND TRIBUTARIES

NEAR/AT: BELLEVUE
COUNTY: KING
STATE: WA



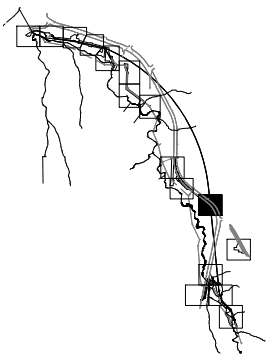
SENSITIVE AREA INFO		IMPACTS		
NAME	SIZE	PERMANENT	TEMPORARY - SHORT TERM	TEMPORARY - LONG TERM
NO IMPACTS TO STREAMS OR WETLANDS ANTICIPATED ON THIS SHEET				

N

0 30 60 Feet

GENERAL NOTE:

1. NO WATERS OF THE U.S. ARE LOCATED WITHIN THE PROJECT AREA.



WETLANDS
CONSTRUCTION LIMITS
SS SANITARY SEWER PIPE
EXISTING TRUNK
DELINEATED OHWM
ESTIMATED OHWM
100-YR FEMA 100-YR FLOODPLAIN EFFECTIVE 5/16/1995

PERMANENT WETLAND IMPACT
SHORT TERM TEMPORARY PSS WETLAND IMPACT
SHORT TERM TEMPORARY PFO WETLAND IMPACT
PERMANENT STREAM IMPACT

STAGING AREA
LONG TERM TEMPORARY PSS WETLAND IMPACT
SHORT TERM TEMPORARY PFO WETLAND IMPACT
TEMPORARY STREAM IMPACT

REFERENCE:

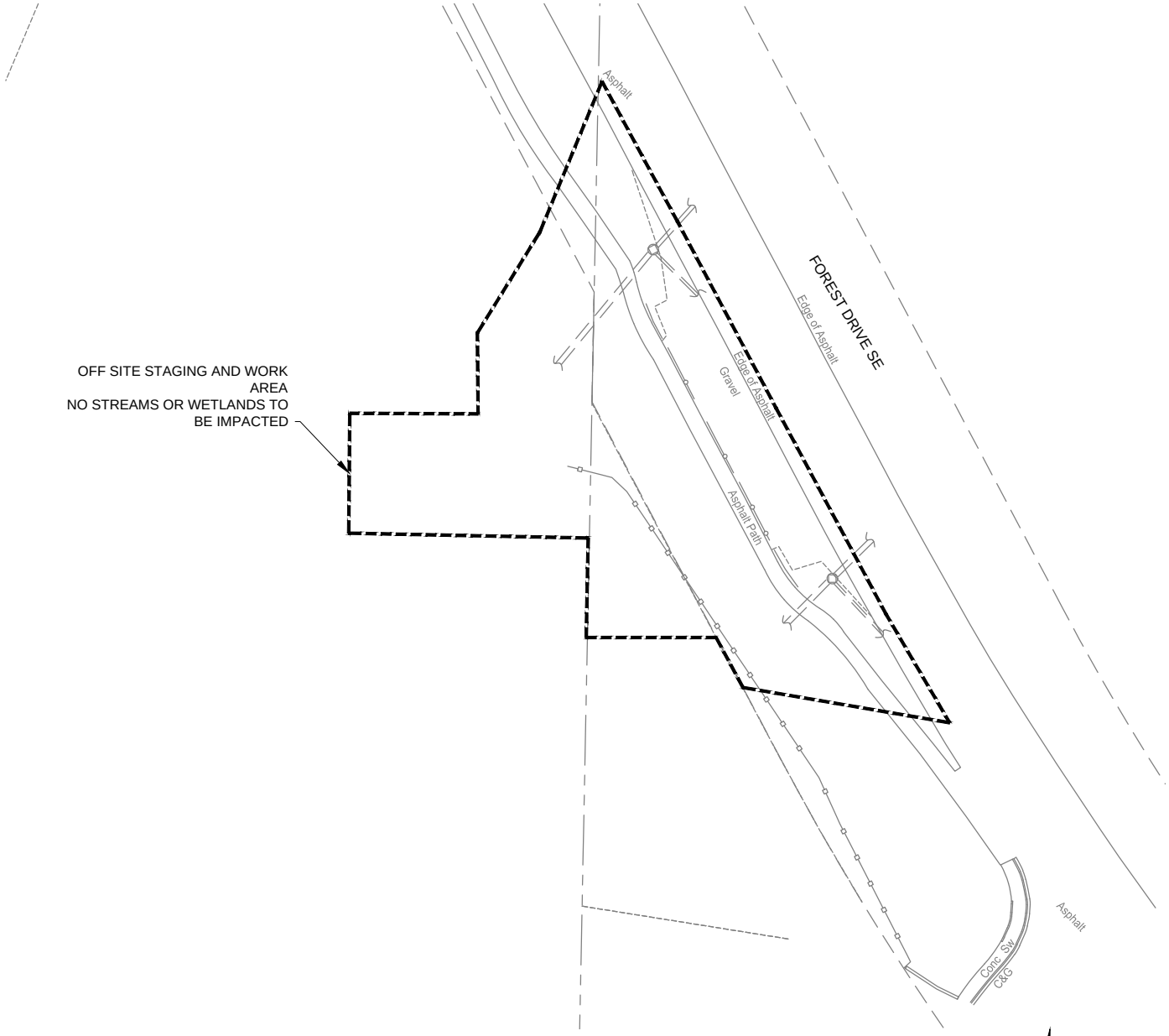
APPLICANT: JACOB SHEPPARD, KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTEWATER TREATMENT DIVISION
ADJACENT PROPERTY OWNERS: SEE JARPA FORM

LOCATION: COAL CREEK NATURAL AREA MICROTUNNEL LOCATION
PARCELS: SEE JARPA FORM
LAT/LONG: 47.567050N / -122.178972W

SHEET 12 OF 29 DATE: 09/25/2020

PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE
IN: COAL CREEK; WETLANDS AND TRIBUTARIES

NEAR/AT: BELLEVUE
COUNTY: KING
STATE: WA



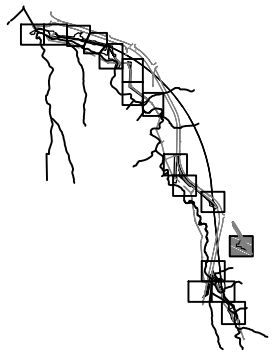
SENSITIVE AREA INFO		IMPACTS		
NAME	SIZE	PERMANENT	TEMPORARY - SHORT TERM	TEMPORARY - LONG TERM
NO IMPACTS TO STREAMS OR WETLANDS ANTICIPATED ON THIS SHEET				

N

0 30 60 Feet

GENERAL NOTE:

1. NO WATERS OF THE U.S. ARE LOCATED WITHIN THE PROJECT AREA.



WETLANDS
CONSTRUCTION LIMITS
SANITARY SEWER PIPE
EXISTING TRUNK
DELINEATED OHWM
ESTIMATED OHWM
100-YR FEMA 100-YR FLOODPLAIN EFFECTIVE 5/16/1995

PERMANENT WETLAND IMPACT
SHORT TERM TEMPORARY PSS WETLAND IMPACT
SHORT TERM TEMPORARY PFO WETLAND IMPACT
PERMANENT STREAM IMPACT

STAGING AREA
LONG TERM TEMPORARY PSS WETLAND IMPACT
SHORT TERM TEMPORARY PFO WETLAND IMPACT
TEMPORARY STREAM IMPACT

REFERENCE:

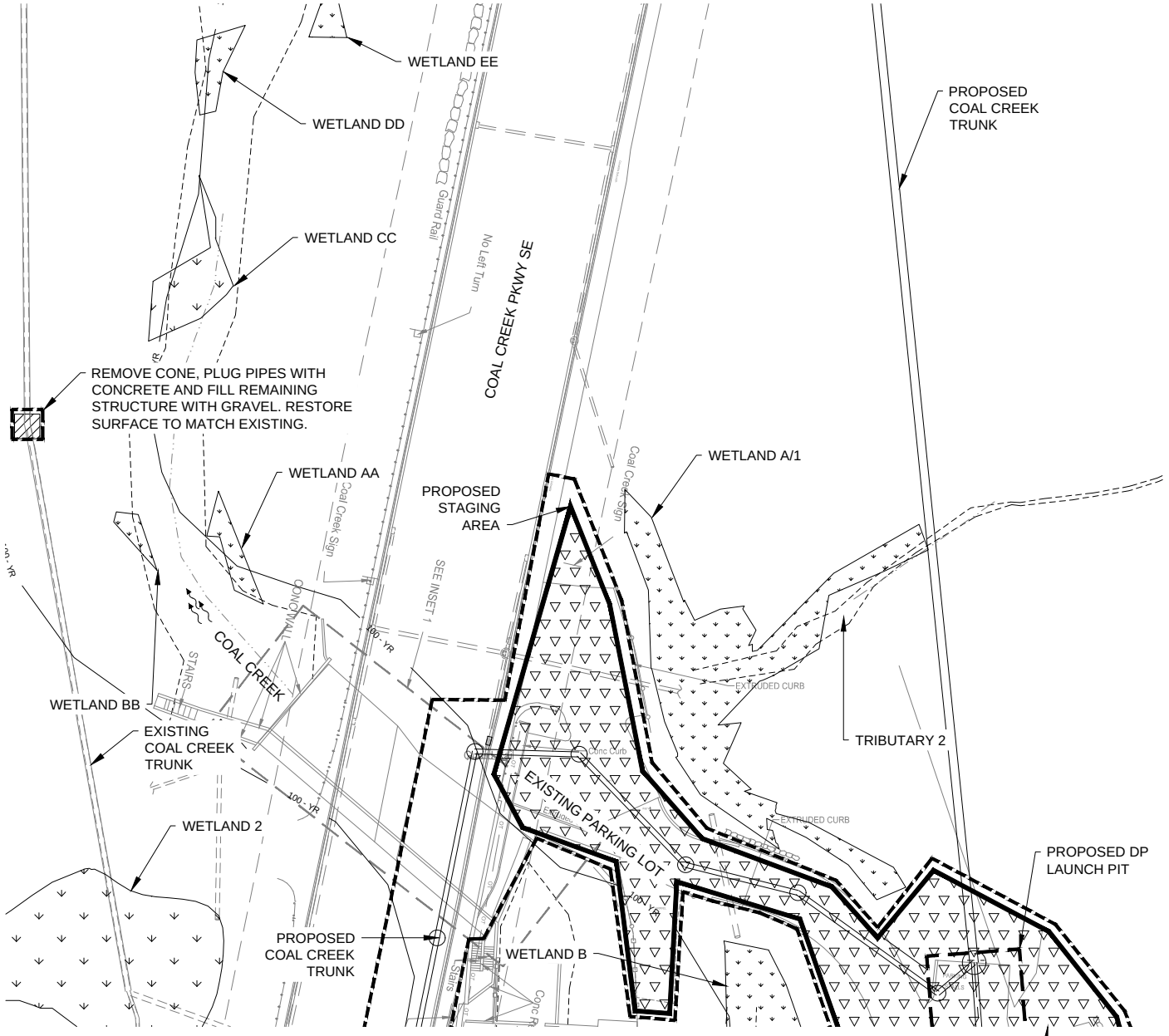
APPLICANT: JACOB SHEPPARD, KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTEWATER TREATMENT DIVISION
ADJACENT PROPERTY OWNERS: SEE JARPA FORM

LOCATION: COAL CREEK NATURAL AREA
FOREST DRIVE SE LOCATION
PARCELS: SEE JARPA FORM
LAT/LONG: 47.567050N / -122.178972W

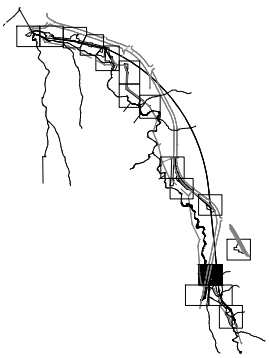
SHEET 13 OF 29 DATE: 09/25/2020

PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE
IN: COAL CREEK; WETLANDS AND TRIBUTARIES

NEAR/AT: BELLEVUE
COUNTY: KING
STATE: WA



SENSITIVE AREA INFO		IMPACTS		
NAME	SIZE	PERMANENT	TEMPORARY - SHORT TERM	TEMPORARY - LONG TERM
NO IMPACTS TO STREAMS OR WETLANDS ANTICIPATED ON THIS SHEET				



WETLANDS
CONSTRUCTION LIMITS
SANITARY SEWER PIPE
EXISTING TRUNK
DELINEATED OHWM
ESTIMATED OHWM
100-YR FEMA 100-YR FLOODPLAIN EFFECTIVE 5/16/1995

PERMANENT WETLAND IMPACT
SHORT TERM TEMPORARY PSS WETLAND IMPACT
SHORT TERM TEMPORARY PFO WETLAND IMPACT
PERMANENT STREAM IMPACT

STAGING AREA
LONG TERM TEMPORARY PSS WETLAND IMPACT
SHORT TERM TEMPORARY PFO WETLAND IMPACT
TEMPORARY STREAM IMPACT

REFERENCE:

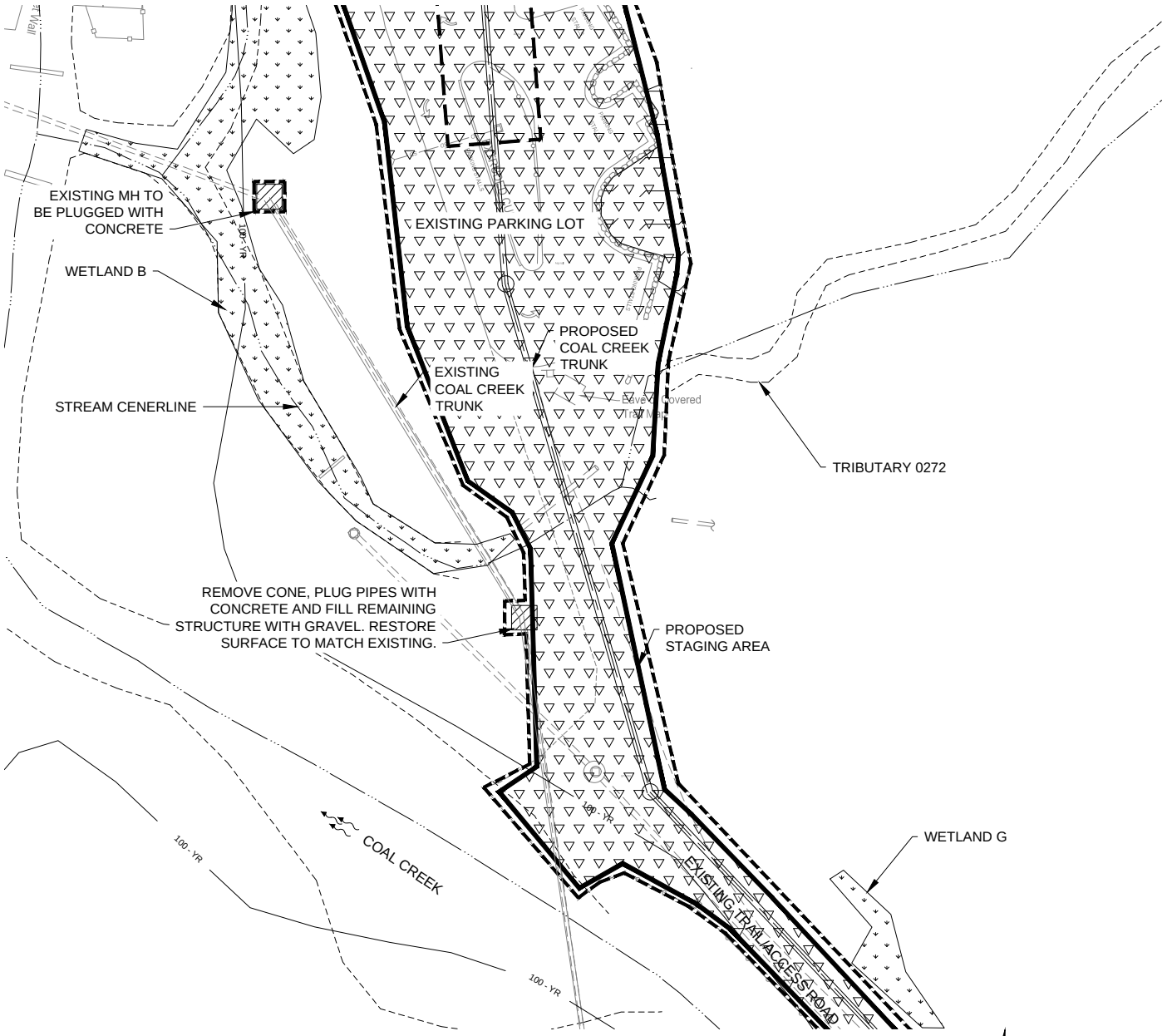
APPLICANT: JACOB SHEPPARD, KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTEWATER TREATMENT DIVISION
ADJACENT PROPERTY OWNERS: SEE JARPA FORM

LOCATION: COAL CREEK NATURAL AREA SOUTH TRUNK CONNECTOR
PARCELS: SEE JARPA FORM
LAT/LONG: 47.567050N / -122.178972W

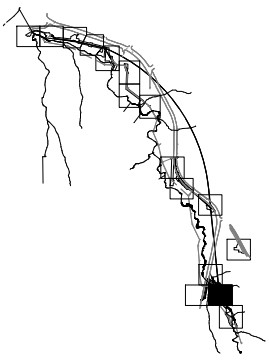
SHEET 14 OF 29 DATE: 09/25/2020

PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE IN: COAL CREEK; WETLANDS AND TRIBUTARIES

NEAR/AT: BELLEVUE
COUNTY: KING
STATE: WA



SENSITIVE AREA INFO		IMPACTS		
NAME	SIZE	PERMANENT	TEMPORARY - SHORT TERM	TEMPORARY - LONG TERM
NO IMPACTS TO STREAMS OR WETLANDS ANTICIPATED ON THIS SHEET				



WETLANDS
CONSTRUCTION LIMITS
SANITARY SEWER PIPE
EXISTING TRUNK
DELINEATED OHWM
ESTIMATED OHWM
100-YR FEMA 100-YR FLOODPLAIN EFFECTIVE 5/16/1995

PERMANENT WETLAND IMPACT
SHORT TERM TEMPORARY PSS WETLAND IMPACT
SHORT TERM TEMPORARY PFO WETLAND IMPACT
PERMANENT STREAM IMPACT

STAGING AREA
LONG TERM TEMPORARY PSS WETLAND IMPACT
SHORT TERM TEMPORARY PFO WETLAND IMPACT
TEMPORARY STREAM IMPACT

REFERENCE:

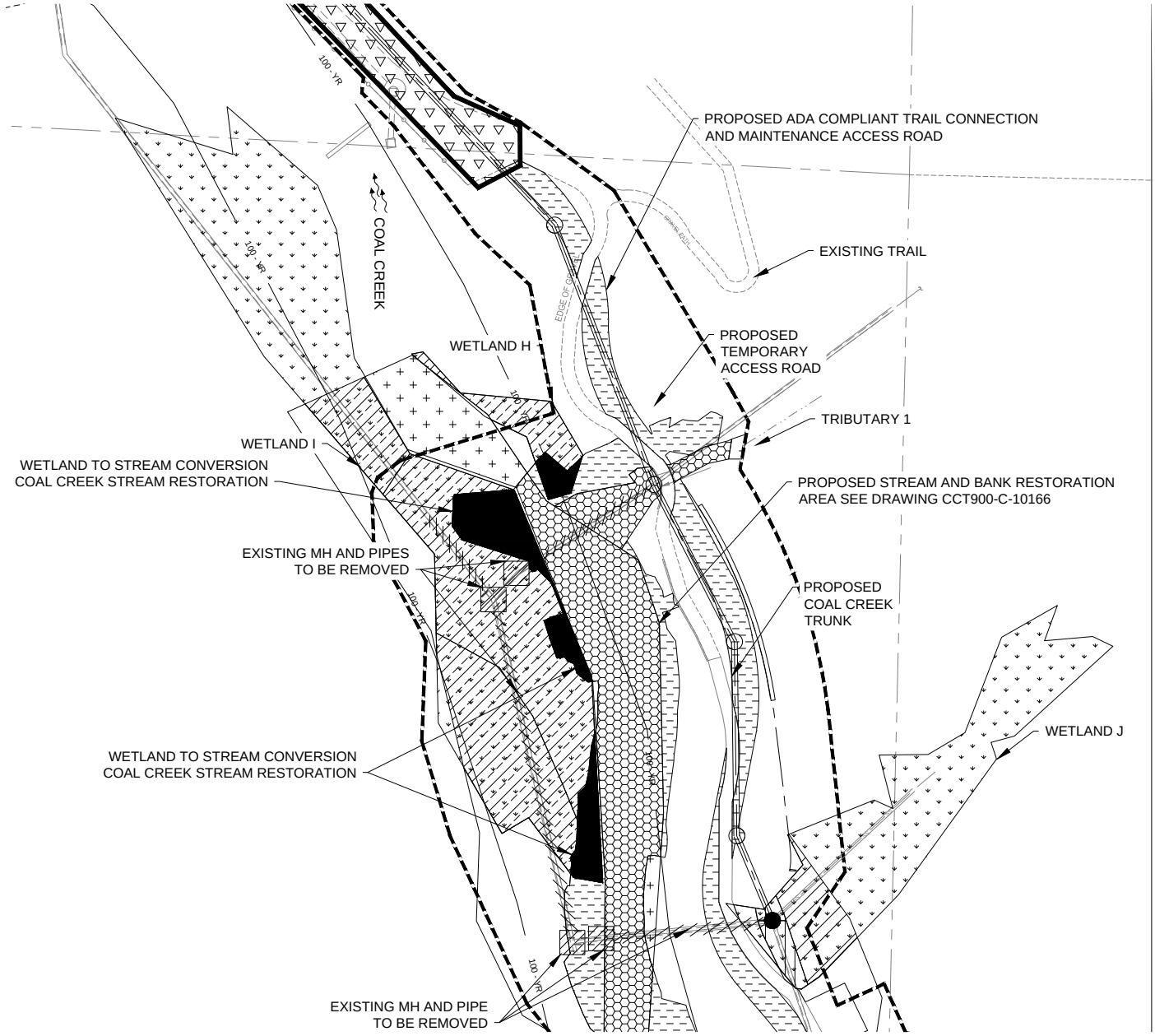
APPLICANT: JACOB SHEPPARD, KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTEWATER TREATMENT DIVISION
ADJACENT PROPERTY OWNERS: SEE JARPA FORM

LOCATION: COAL CREEK NATURAL AREA SPUR LOCATION
PARCELS: SEE JARPA FORM
LAT/LONG: 47.567050N / -122.178972W

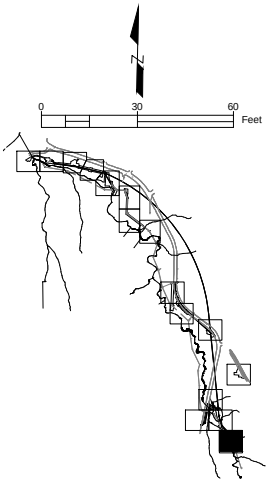
SHEET 15 OF 29 DATE: 09/25/2020

PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE
IN: COAL CREEK; WETLANDS AND TRIBUTARIES

NEAR/AT: BELLEVUE
COUNTY: KING
STATE: WA



SENSITIVE AREA INFO		IMPACTS		
NAME	**SIZE**	**PERMANENT**	**TEMP - SHORT TERM**	**TEMP - LONG TERM**
WETLAND H	0.02 AC	172 SF	602 SF	--
WETLAND I	0.31 AC	1,238 SF	6,527 SF	--
WETLAND J	0.12 AC	28 SF	--	1,140 SF
TRIBUTARY 1	--	750 SF (26 LF)	161 SF (20 LF)	--
COAL CREEK (SPUR)	--	5,326 SF (222 LF)	2,285 SF (132 LF)	--



GENERAL NOTES:

1. COAL CREEK, WETLAND I, AND WETLAND H IMPACTS ARE FOR STREAM PIPE CROSSING REMOVAL AND STREAM RESTORATION (BENEFICIAL IMPROVEMENTS).
2. TRIBUTARY 1 PERMANENT IMPACTS ARE FROM THE RELOCATION NEEDED TO SEPARATE THE STREAM FROM THE CITY MAINTENANCE HOLE CURRENTLY IN THE MIDDLE OF ITS CHANNEL (BENEFICIAL IMPROVEMENTS).

WETLANDS
CONSTRUCTION LIMITS
SANITARY SEWER PIPE
EXISTING TRUNK
DELINEATED OHWM
ESTIMATED OHWM
100-YR FEMA 100-YR FLOODPLAIN EFFECTIVE 5/16/1995
PERMANENT WETLAND IMPACT
SHORT TERM TEMPORARY PSS WETLAND IMPACT
SHORT TERM TEMPORARY PFO WETLAND IMPACT
PERMANENT STREAM IMPACT
STAGING AREA
LONG TERM TEMPORARY PSS WETLAND IMPACT
SHORT TERM TEMPORARY PFO WETLAND IMPACT
TEMPORARY STREAM IMPACT

REFERENCE:

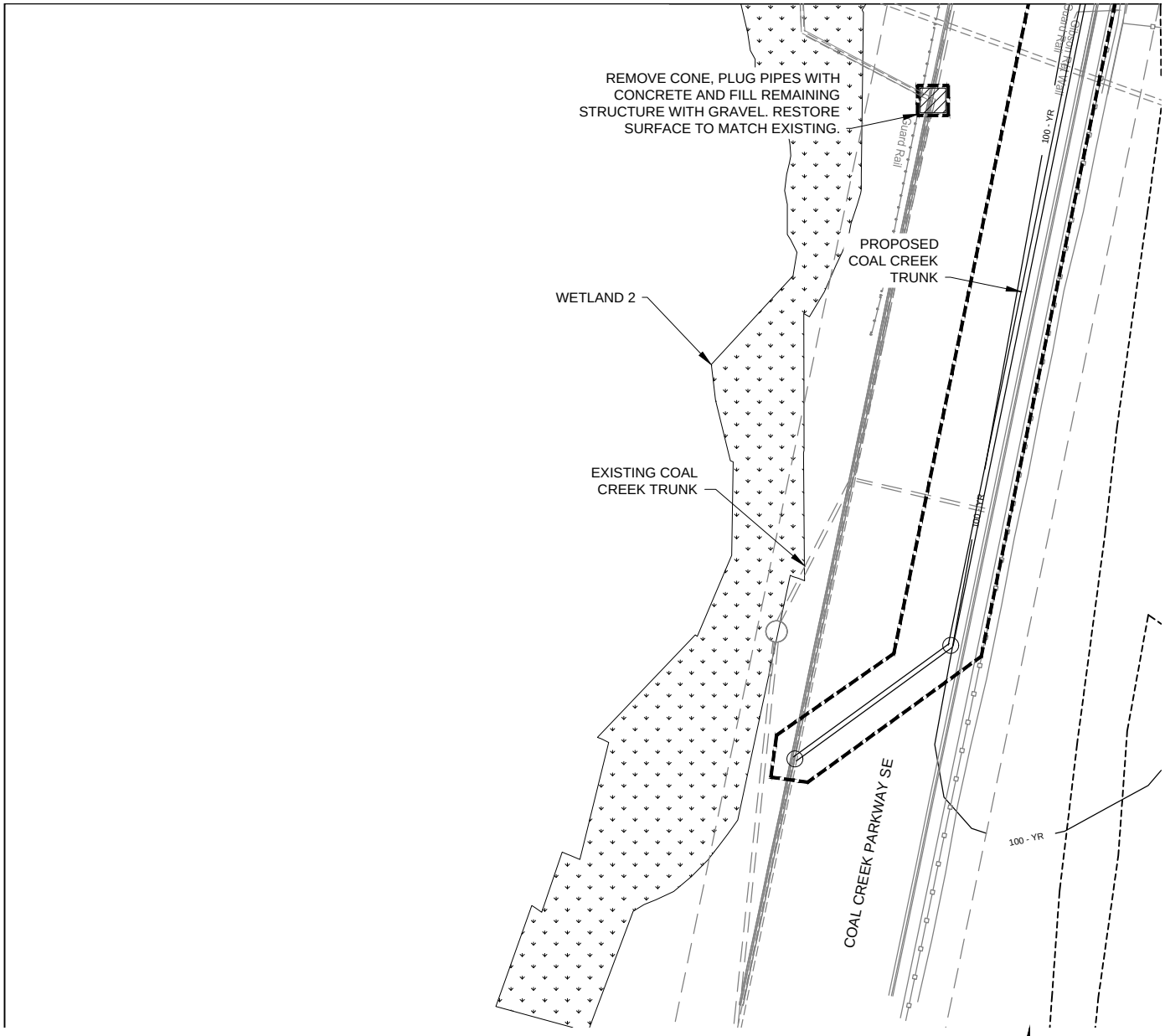
APPLICANT: JACOB SHEPPARD, KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTEWATER TREATMENT DIVISION
ADJACENT PROPERTY OWNERS: SEE JARPA FORM

LOCATION: COAL CREEK NATURAL AREA SPUR LOCATION
PARCELS: SEE JARPA FORM
LAT/LONG: 47.567050N / -122.178972W

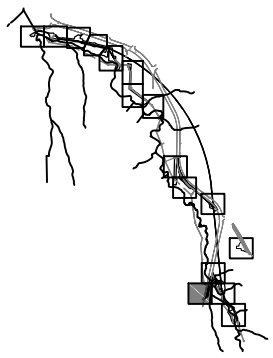
 DATE: 09/25/2020

PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE
IN: COAL CREEK; WETLANDS AND TRIBUTARIES

NEAR/AT: BELLEVUE
COUNTY: KING
STATE: WA



SENSITIVE AREA INFO		IMPACTS		
NAME	SIZE	PERMANENT	TEMPORARY - SHORT TERM	TEMPORARY - LONG TERM
WETLAND 2	0.41 AC	IMPACTS TO WETLAND 2 ARE NOT ANTICIPATED DURING CONSTRUCTION		



WETLANDS
CONSTRUCTION LIMITS
SANITARY SEWER PIPE
EXISTING TRUNK
DELINEATED OHWM
ESTIMATED OHWM
100-YR FEMA 100-YR FLOODPLAIN EFFECTIVE 5/16/1995

PERMANENT WETLAND IMPACT
SHORT TERM TEMPORARY PSS WETLAND IMPACT
SHORT TERM TEMPORARY PFO WETLAND IMPACT
PERMANENT STREAM IMPACT

STAGING AREA
LONG TERM TEMPORARY PSS WETLAND IMPACT
SHORT TERM TEMPORARY PFO WETLAND IMPACT
TEMPORARY STREAM IMPACT

REFERENCE:

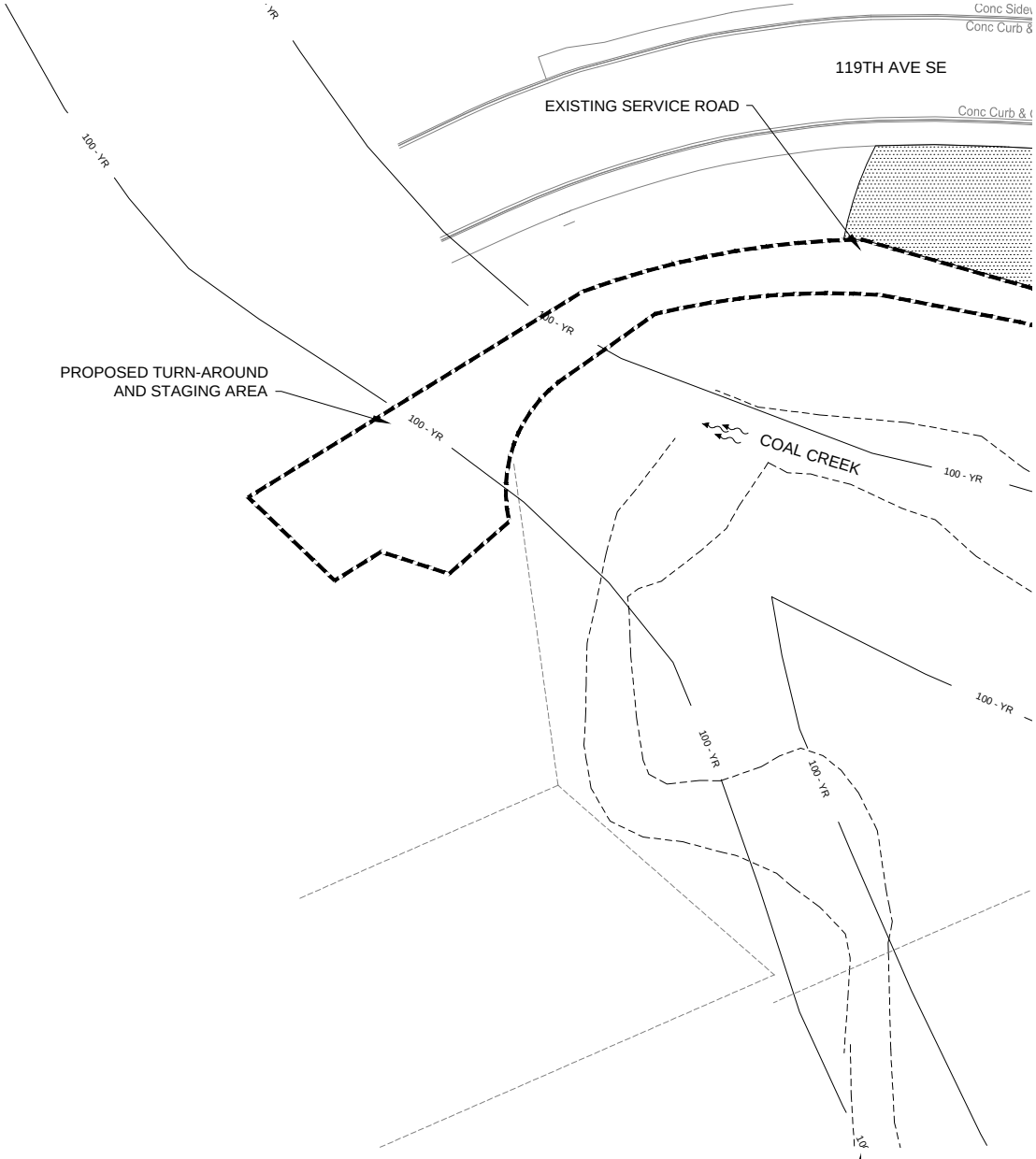
APPLICANT: JACOB SHEPPARD, KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTEWATER TREATMENT DIVISION
ADJACENT PROPERTY OWNERS: SEE JARPA FORM

LOCATION: COAL CREEK NATURAL AREA SOUTH TRUNK CONNECTOR
PARCELS: SEE JARPA FORM
LAT/LONG: 47.567050N / -122.178972W

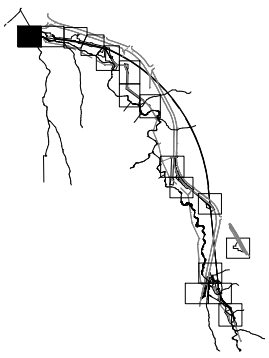
SHEET 17 OF 29 DATE: 09/25/2020

PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE
IN: COAL CREEK; WETLANDS AND TRIBUTARIES

NEAR/AT: BELLEVUE
COUNTY: KING
STATE: WA



MITIGATION AREAS	
NAME	**SIZE**
COMBINED WETLAND CREATION	0.850 AC
COMBINED WETLAND ENHANCEMENT	2.20 AC
COMBINED WETLAND BUFFER ENHANCEMENT	2.56 AC



WETLANDS
CONSTRUCTION LIMITS
SANITARY SEWER PIPE
EXISTING TRUNK
DELINEATED OHWM
ESTIMATED OHWM
100-YR FEMA 100-YR FLOODPLAIN EFFECTIVE 5/16/1995

WETLAND BUFFER ENHANCEMENT
WETLAND EHANCEMENT
WETLAND CREATION
PROPOSED SNAG LOCATION

PROPOSED DEBRIS PILE

REFERENCE:

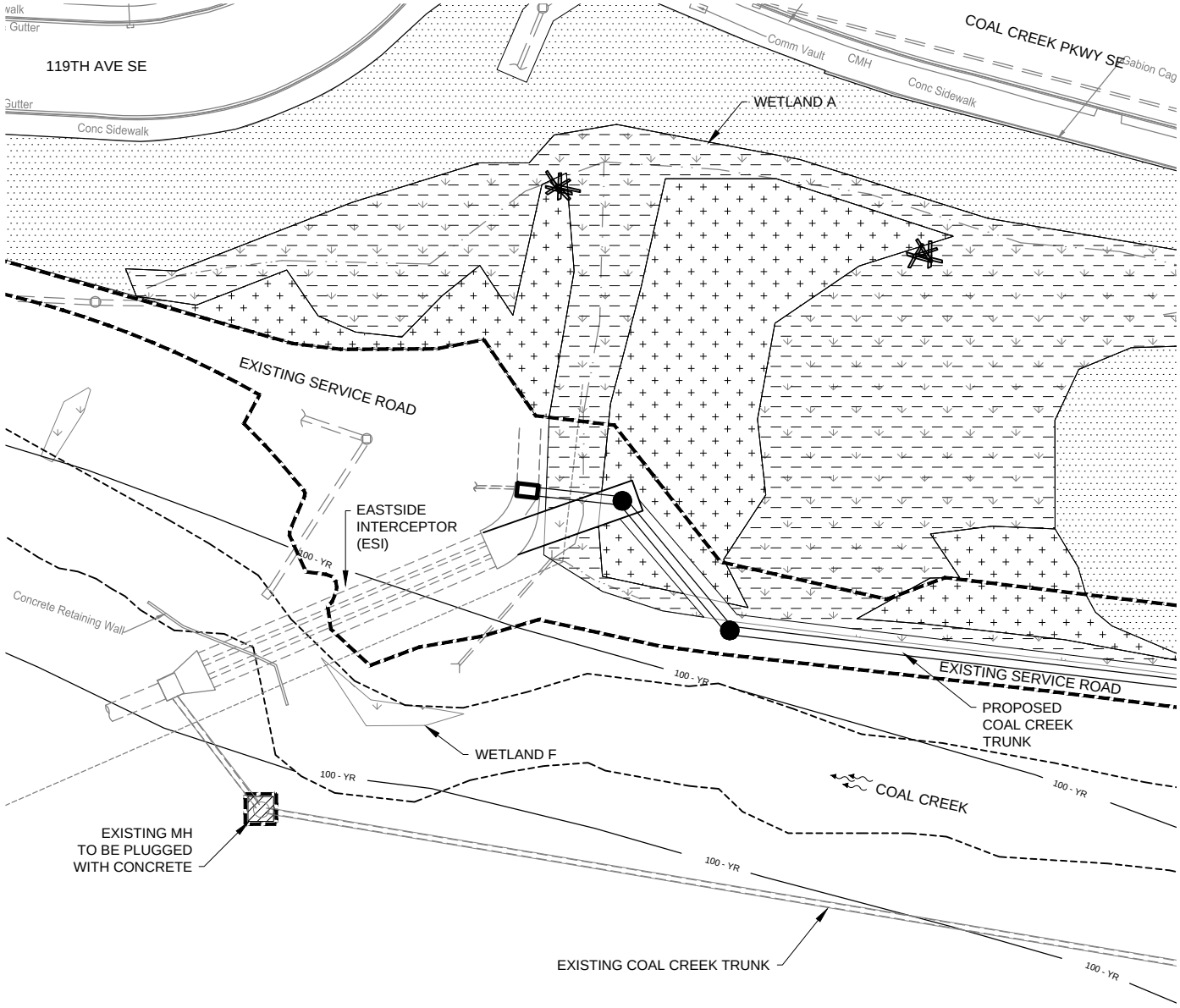
APPLICANT: JACOB SHEPPARD, KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTEWATER TREATMENT DIVISION
ADJACENT PROPERTY OWNERS: SEE JARPA FORM

LOCATION: COAL CREEK NATURAL AREA
ESI CONNECTION
PARCELS: SEE JARPA FORM
LAT/LONG: 47.567050N / -122.178972W

SHEET 18 OF 29 DATE: 09/25/2020

PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE
IN: COAL CREEK; WETLANDS AND TRIBUTARIES

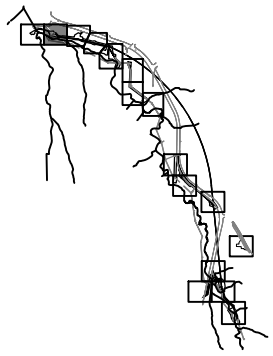
NEAR/AT: BELLEVUE
COUNTY: KING
STATE: WA



MITIGATION AREAS	
NAME	**SIZE**
COMBINED WETLAND CREATION	SEE SHEET 18 FOR DETAILS
COMBINED WETLAND ENHANCEMENT	SEE SHEET 18 FOR DETAILS
COMBINED WETLAND BUFFER ENHANCEMENT	SEE SHEET 18 FOR DETAILS

N

0 30 60 Feet



WETLANDS
CONSTRUCTION LIMITS
SANITARY SEWER PIPE
EXISTING TRUNK
DELINEATED OHWM
ESTIMATED OHWM
100-YR FEMA 100-YR FLOODPLAIN EFFECTIVE 5/16/1995

WETLAND BUFFER ENHANCEMENT
WETLAND ENHANCEMENT
WETLAND CREATION

PROPOSED SNAG LOCATION

PROPOSED DEBRIS PILE

REFERENCE:

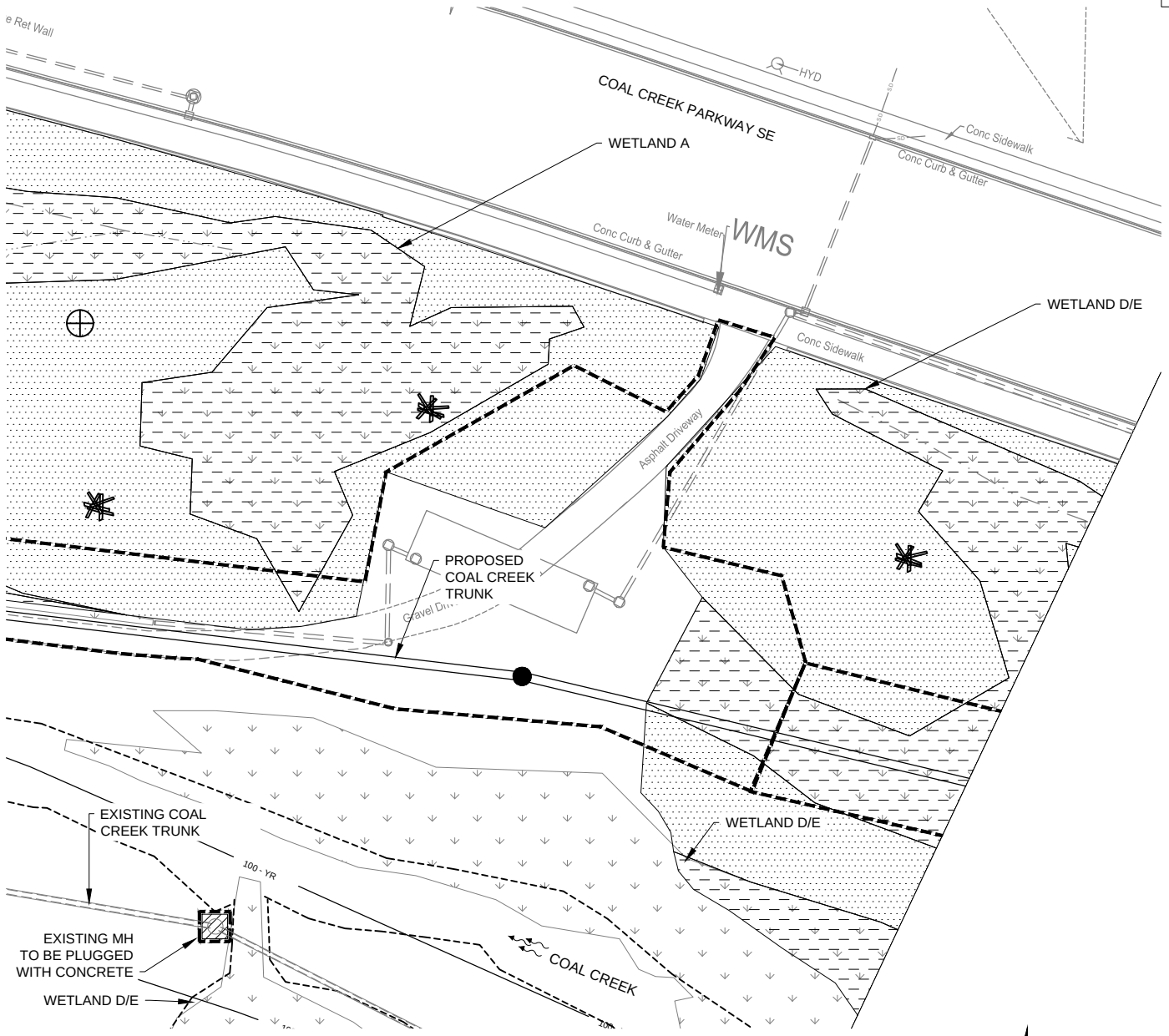
APPLICANT: JACOB SHEPPARD, KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTEWATER TREATMENT DIVISION
ADJACENT PROPERTY OWNERS: SEE JARPA FORM

LOCATION: COAL CREEK NATURAL AREA
ESI CONNECTION
PARCELS: SEE JARPA FORM
LAT/LONG: 47.567050N / -122.178972W

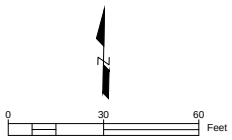
SHEET 19 OF 29 DATE: 09/25/2020

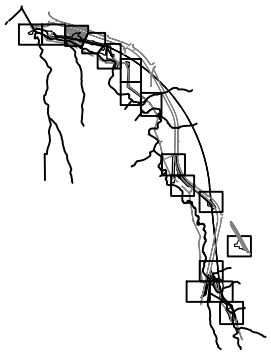
PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE
IN: COAL CREEK; WETLANDS AND TRIBUTARIES

NEAR/AT: BELLEVUE
COUNTY: KING
STATE: WA



MITIGATION AREAS	
NAME	**SIZE**
COMBINED WETLAND CREATION	SEE SHEET 18 FOR DETAILS
COMBINED WETLAND ENHANCEMENT	SEE SHEET 18 FOR DETAILS
COMBINED WETLAND BUFFER ENHANCEMENT	SEE SHEET 18 FOR DETAILS





WETLANDS
CONSTRUCTION LIMITS
SANITARY SEWER PIPE
EXISTING TRUNK
DELINEATED OHWM
ESTIMATED OHWM
FEMA 100-YR FLOODPLAIN
EFFECTIVE 5/16/1995

WETLAND BUFFER ENHANCEMENT
WETLAND ENHANCEMENT
WETLAND CREATION

PROPOSED SNAG LOCATION

PROPOSED DEBRIS PILE

REFERENCE:

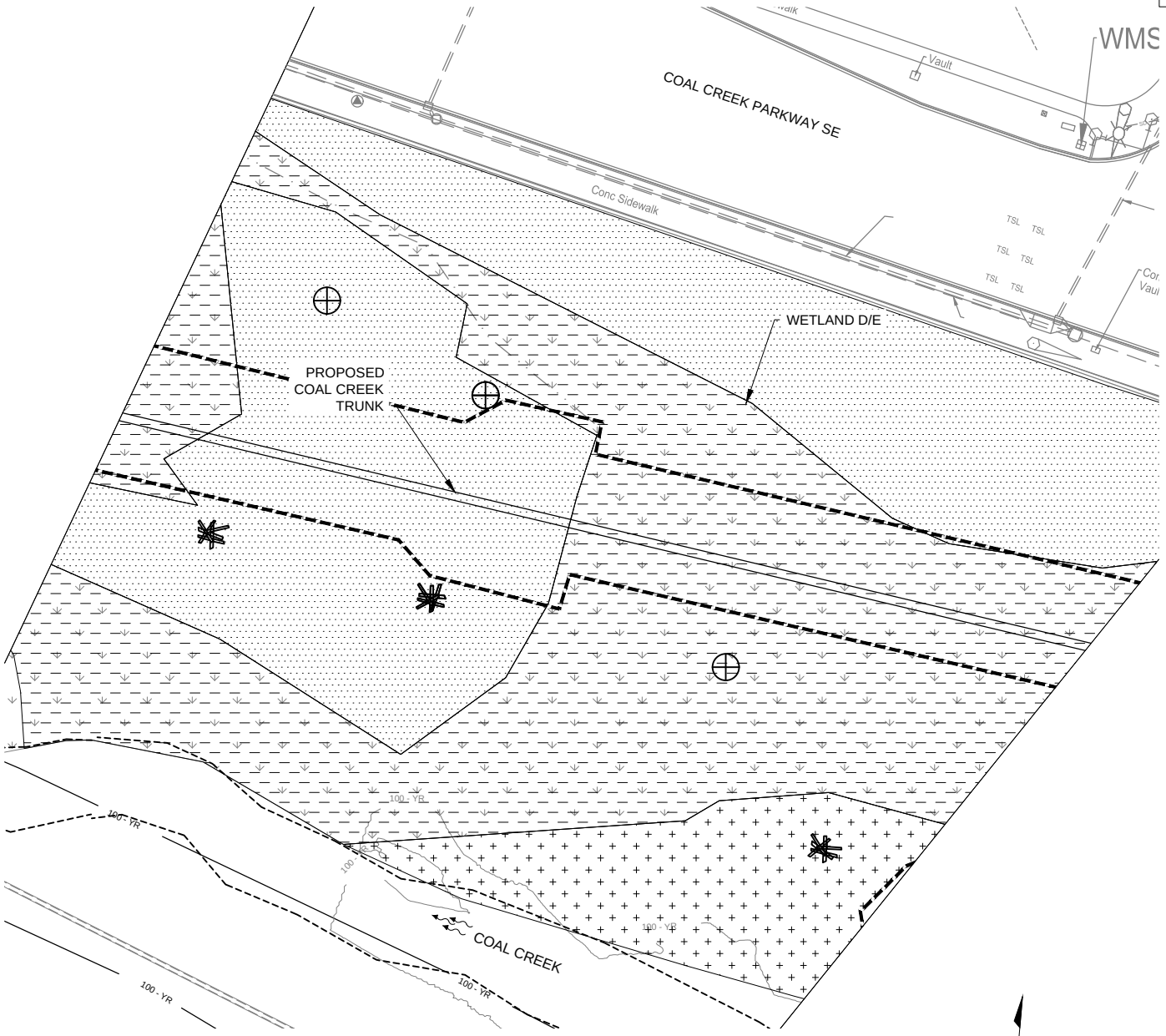
APPLICANT: JACOB SHEPPARD, KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTEWATER TREATMENT DIVISION
ADJACENT PROPERTY OWNERS: SEE JARPA FORM

LOCATION: COAL CREEK NATURAL AREA
ESI CONNECTION
PARCELS: SEE JARPA FORM
LAT/LONG: 47.567050N / -122.178972W

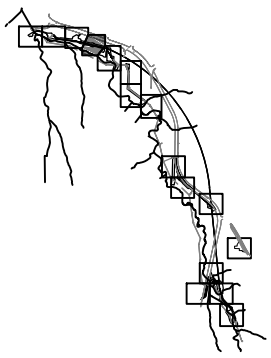
SHEET 20 OF 29 DATE: 09/25/2020

PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE
IN: COAL CREEK; WETLANDS AND TRIBUTARIES

NEAR/AT: BELLEVUE
COUNTY: KING
STATE: WA



MITIGATION AREAS	
NAME	**SIZE**
COMBINED WETLAND CREATION	SEE SHEET 18 FOR DETAILS
COMBINED WETLAND ENHANCEMENT	SEE SHEET 18 FOR DETAILS
COMBINED WETLAND BUFFER ENHANCEMENT	SEE SHEET 18 FOR DETAILS



WETLANDS
CONSTRUCTION LIMITS
SANITARY SEWER PIPE
EXISTING TRUNK
DELINEATED OHWM
ESTIMATED OHWM
100-YR FEMA 100-YR FLOODPLAIN EFFECTIVE 5/16/1995
WETLAND BUFFER ENHANCEMENT
WETLAND ENHANCEMENT
WETLAND CREATION
PROPOSED SNAG LOCATION
PROPOSED DEBRIS PILE

REFERENCE:

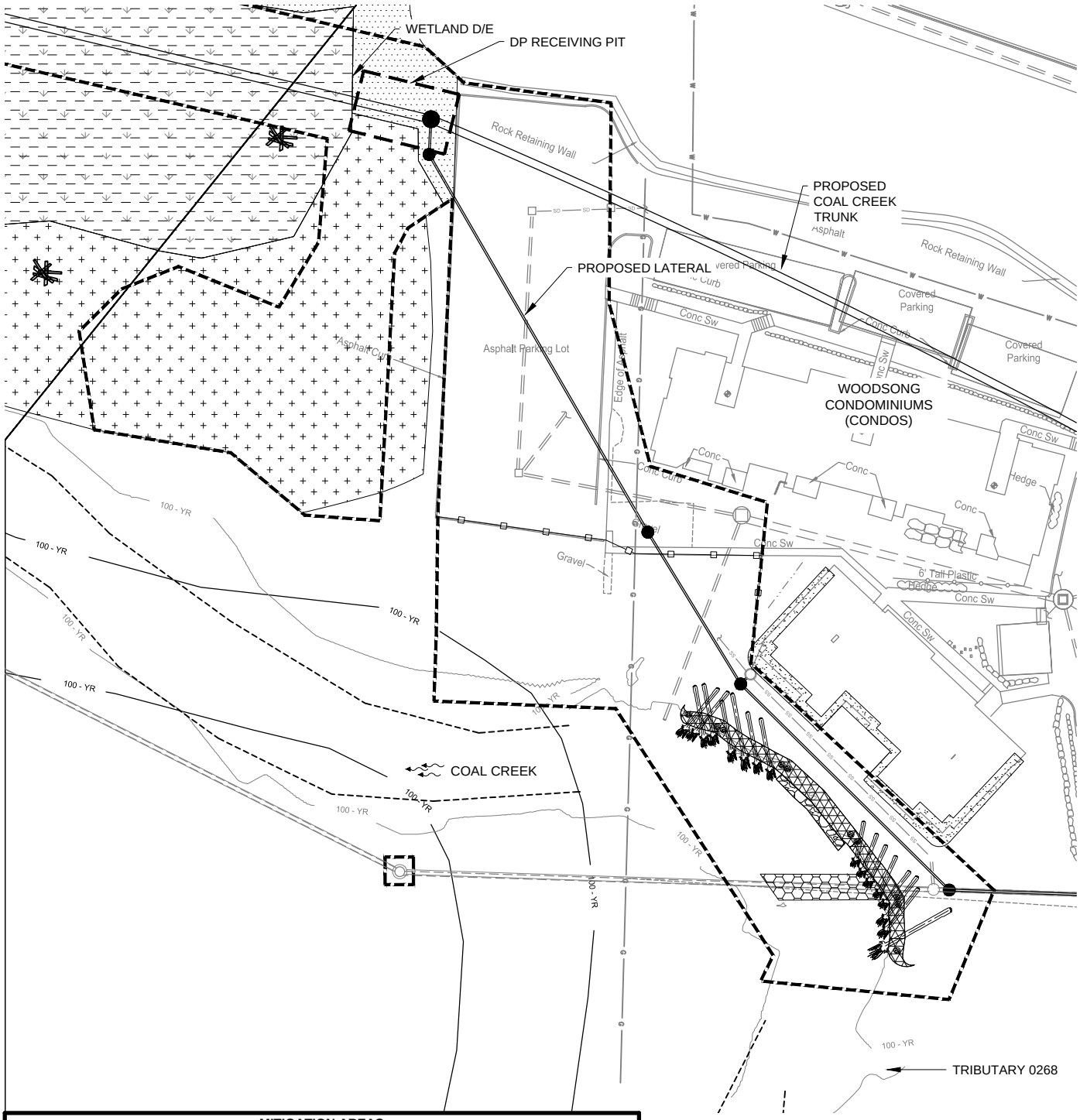
APPLICANT: JACOB SHEPPARD, KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTEWATER TREATMENT DIVISION
ADJACENT PROPERTY OWNERS: SEE JARPA FORM

LOCATION: COAL CREEK NATURAL AREA
ESI CONNECTION
PARCELS: SEE JARPA FORM
LAT/LONG: 47.567050N / -122.178972W

SHEET 21 OF 29 DATE: 09/25/2020

PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE
IN: COAL CREEK; WETLANDS AND TRIBUTARIES

NEAR/AT: BELLEVUE
COUNTY: KING
STATE: WA

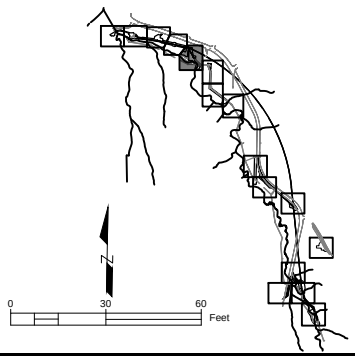


MITIGATION AREAS	
NAME	**SIZE**
COMBINED WETLAND CREATION	SEE SHEET 18 FOR DETAILS
COMBINED WETLAND ENHANCEMENT	SEE SHEET 18 FOR DETAILS
COMBINED WETLAND BUFFER ENHANCEMENT	SEE SHEET 18 FOR DETAILS

WETLANDS
CONSTRUCTION LIMITS
SS SANITARY SEWER PIPE
EXISTING TRUNK
DELINEATED OHWM
ESTIMATED OHWM
100-YR FEMA 100-YR FLOODPLAIN EFFECTIVE 5/16/1995

WETLAND BUFFER ENHANCEMENT
WETLAND ENHANCEMENT
WETLAND CREATION
PROPOSED SNAG LOCATION

PROPOSED DEBRIS PILE



REFERENCE:

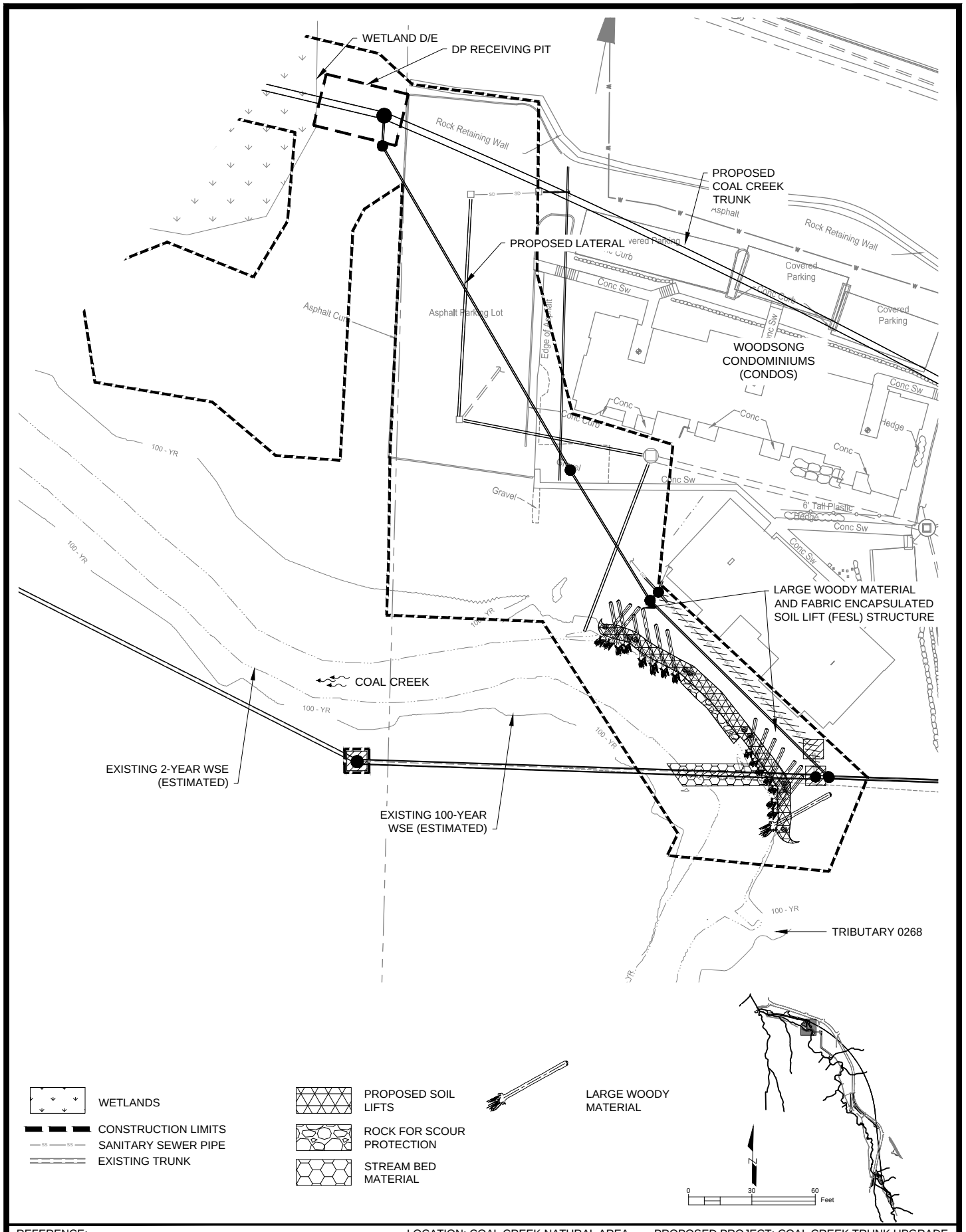
APPLICANT: JACOB SHEPPARD, KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTEWATER TREATMENT DIVISION
ADJACENT PROPERTY OWNERS: SEE JARPA FORM

LOCATION: COAL CREEK NATURAL AREA
CONDOS LOCATION
PARCELS: SEE JARPA FORM
LAT/LONG: 47.567050N / -122.178972W

SHEET 22 OF 29 DATE: 09/25/2020

PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE
IN: COAL CREEK; WETLANDS AND TRIBUTARIES

NEAR/AT: BELLEVUE
COUNTY: KING
STATE: WA



REFERENCE:

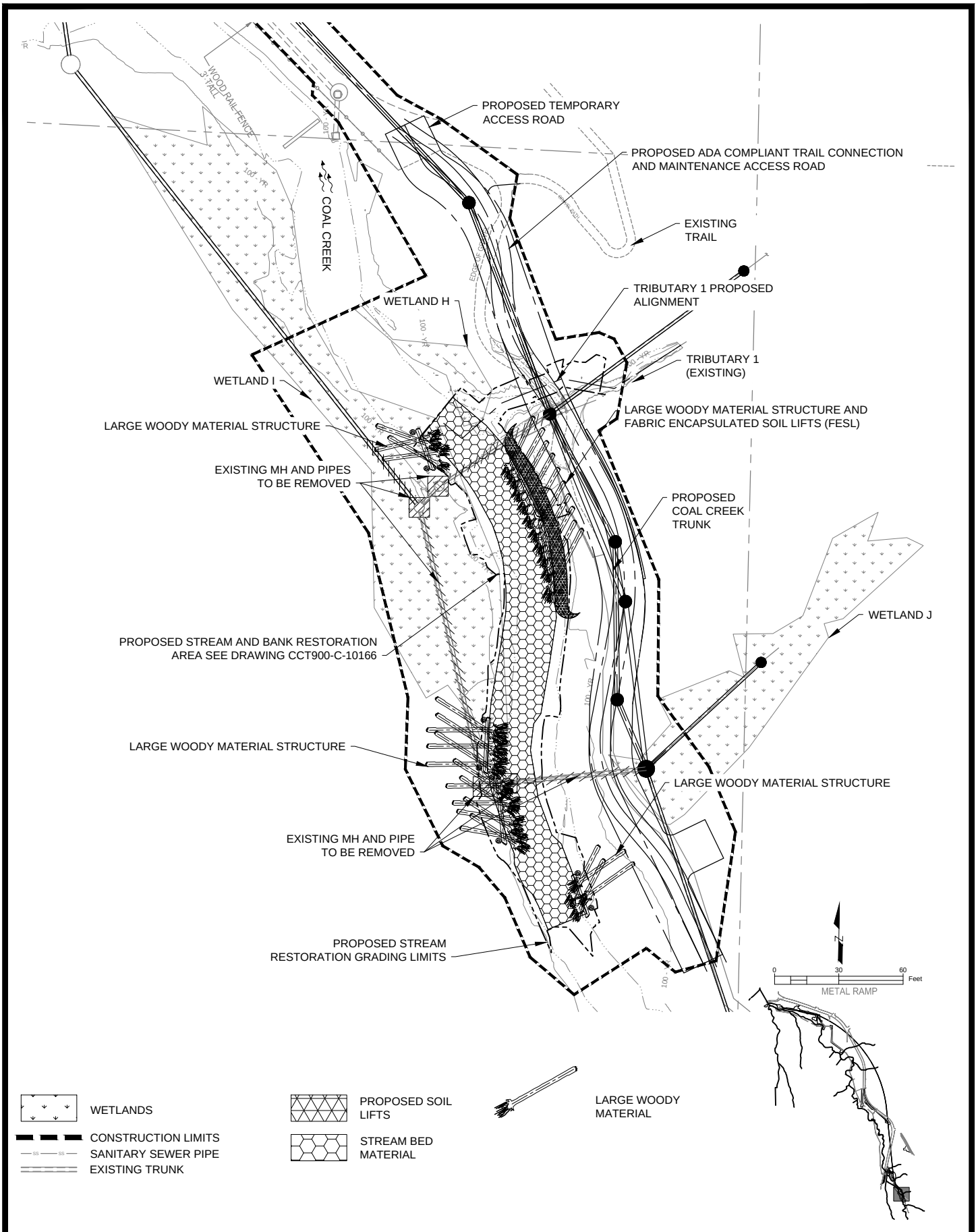
APPLICANT: JACOB SHEPPARD, KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTEWATER TREATMENT DIVISION
ADJACENT PROPERTY OWNERS: SEE JARPA FORM

LOCATION: COAL CREEK NATURAL AREA
CONDOS LOCATION
PARCELS: SEE JARPA FORM
LAT/LONG: 47.567050N / -122.178972W

SHEET 23 OF 29 DATE: 09/25/2020

PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE
IN: COAL CREEK; WETLANDS AND TRIBUTARIES

NEAR/AT: BELLEVUE
COUNTY: KING
STATE: WA



REFERENCE:

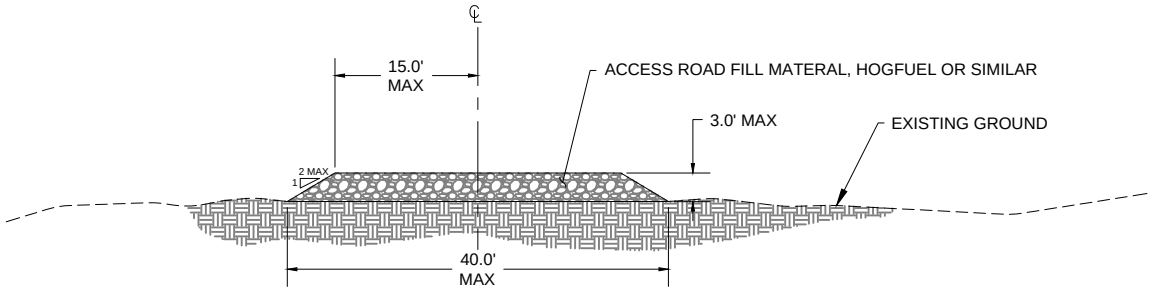
APPLICANT: JACOB SHEPPARD, KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTEWATER TREATMENT DIVISION
ADJACENT PROPERTY OWNERS: SEE JARPA FORM

LOCATION: COAL CREEK NATURAL AREA SPUR LOCATION
PARCELS: SEE JARPA FORM
LAT/LONG: 47.567050N / -122.178972W

SHEET 24 OF 29 DATE: 09/25/2020

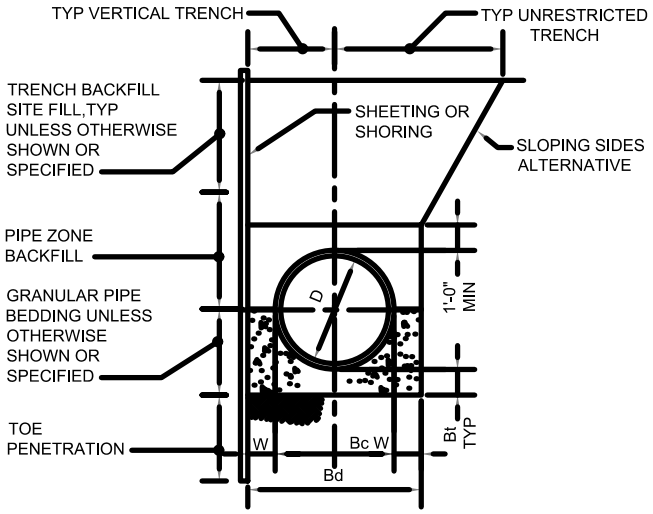
PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE
IN: COAL CREEK; WETLANDS AND TRIBUTARIES

NEAR/AT: BELLEVUE
COUNTY: KING
STATE: WA

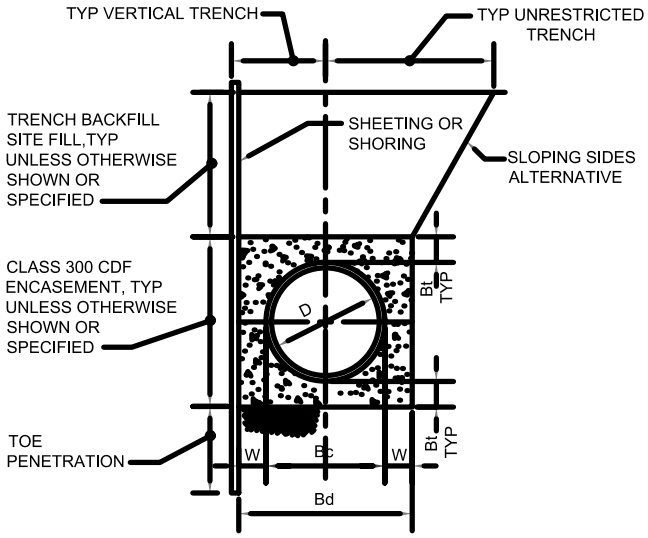


TYPICAL TEMPORARY ACCESS ROAD SECTION AT WETLAND D/E

NTS



GRANULAR BEDDING



CDF ENCASEMENT

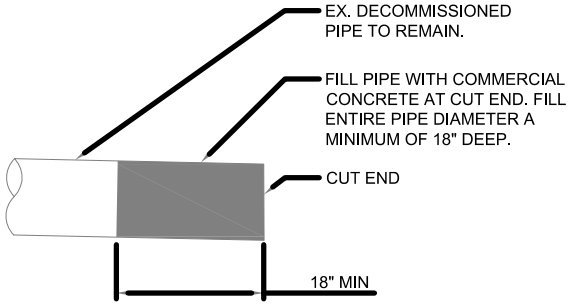
NOTES:

1. PIPE TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH TRENCH SCHEMATIC (A) UNLESS SHOWN OR INDICATED OTHERWISE IN YARD PIPING DRAWINGS.
2. TRENCH DIMENSIONS AND BACKFILL THICKNESS REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE:

D (IN)	W (MIN) (IN)	Bd (MAX) (IN)	Bt (MIN) (IN)
4 - 8	6	Bc + 24	6
10 - 24	6	Bc + 24	6
27 - 60	12	Bc + 36	12
OVER 60	18	Bc + 42	12

TRENCH SCHEMATIC FOR 42" & SMALLER PIPE DETAILS — 20406

3. SEE SPECIFICATION SECTIONS 31 50 00-TEMPORARY SHORING, 31 05 00-EARTHWORK, AND 03 30 10- CONTROLLED DENSITY FILL FOR SHORING, BACKFILL MATERIAL, PLACEMENT AND COMPACTION REQUIREMENTS.
4. CONTRACTOR SHALL PREVENT BUOYANCY OF PIPE. MULTIPLE STAGE PLACEMENT OF CDF OR CONCRETE BEDDING MAY BE REQUIRED.

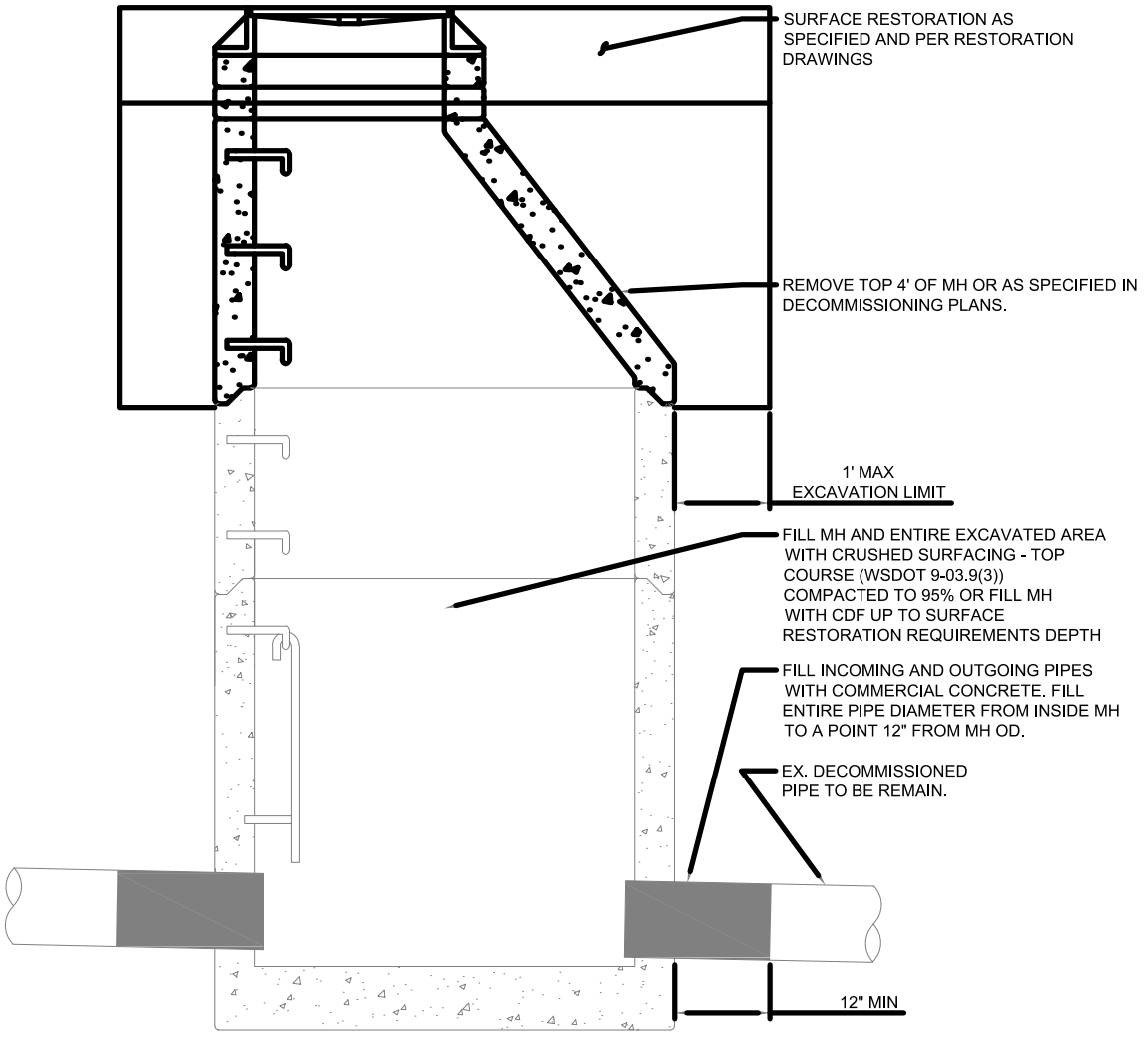


SEWER PIPE DECOMMISSIONING DETAIL

NOT TO SCALE

NOTES:

1. DECOMMISSION PIPES AT LOCATIONS SHOWN ON THE DECOMMISSIONING PLANS

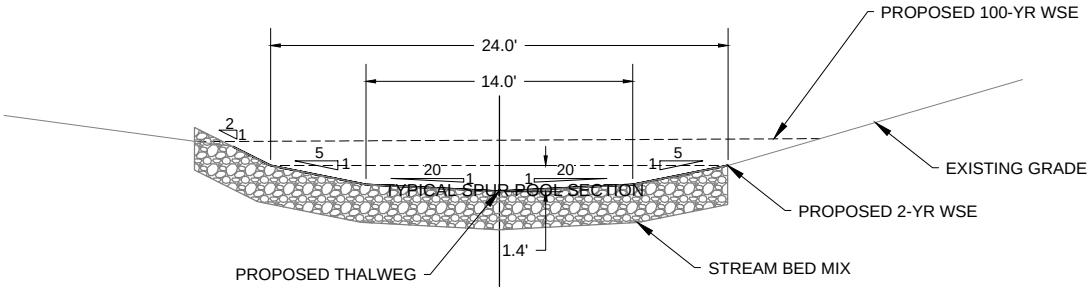


SEWER AND MAINTENANCE HOLE DECOMMISSIONING DETAIL

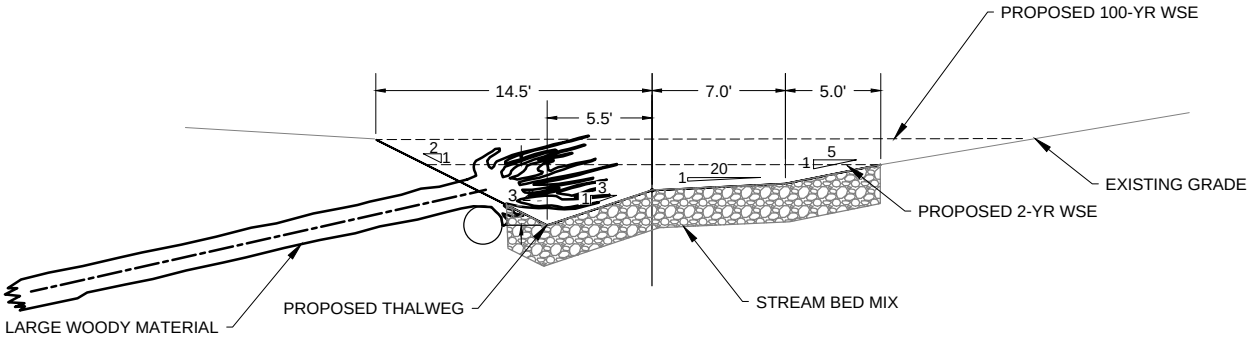
NOT TO SCALE

NOTES:

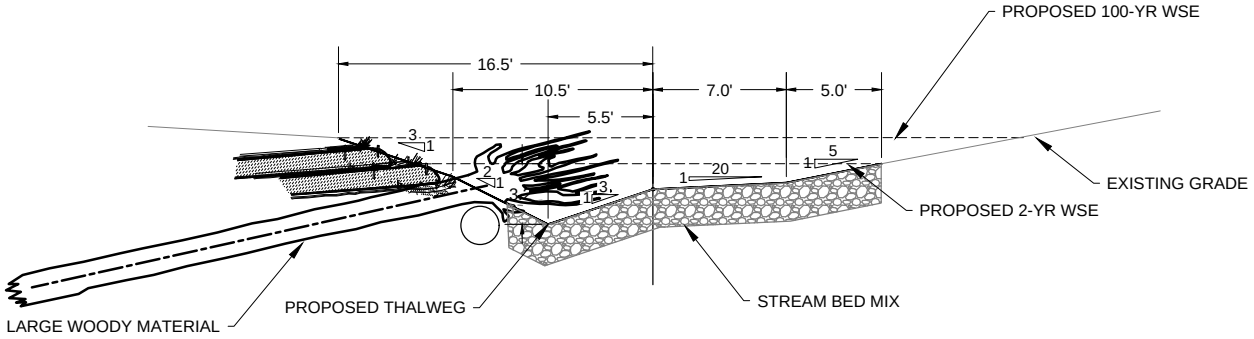
1. FOR MHS NOTED TO BE REMOVED, EITHER NOTED AS CONE OR FULL, THIS DETAIL APPLIES IN FULL.
2. FOR MHS NOTED TO BE PLUGGED, ONLY FILL INCOMING AND OUTGOING PIPES WITH COMMERCIAL CONCRETE, MINIMUM 12" DEEP BEYOND MH OD. LEAVE RING AND COVER IN PLACE.



TYPICAL SPUR RIFFLE SECTION
NTS

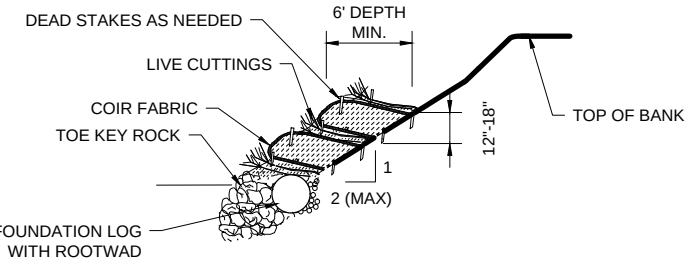


TYPICAL SPUR POOL SECTION
NTS

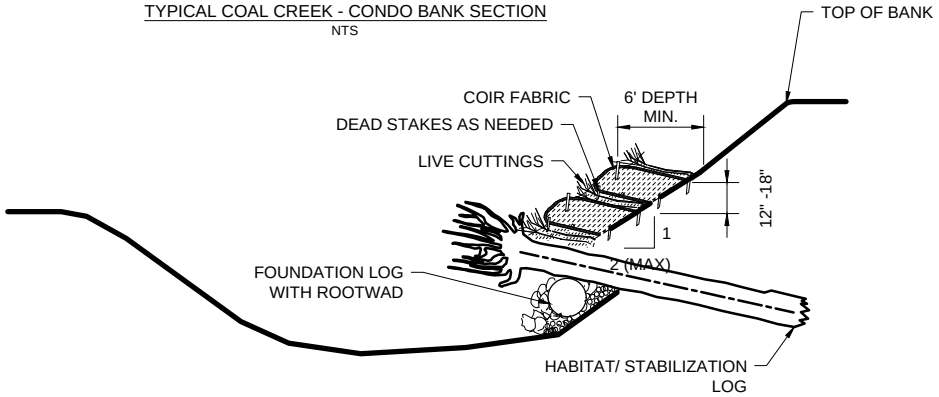


TYPICAL SPUR POOL SECTION WITH FESL
NTS

REFERENCE:	LOCATION: COAL CREEK NATURAL AREA	PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE IN: COAL CREEK; WETLANDS AND TRIBUTARIES
APPLICANT: JACOB SHEPPARD, KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTEWATER TREATMENT DIVISION	PARCELS: SEE JARPA FORM LAT/LONG: 47.567050N / -122.178972W	NEAR/AT: BELLEVUE COUNTY: KING
ADJACENT PROPERTY OWNERS: SEE JARPA FORM	SHEET 27 OF 29 DATE: 09/25/2020	STATE: WA

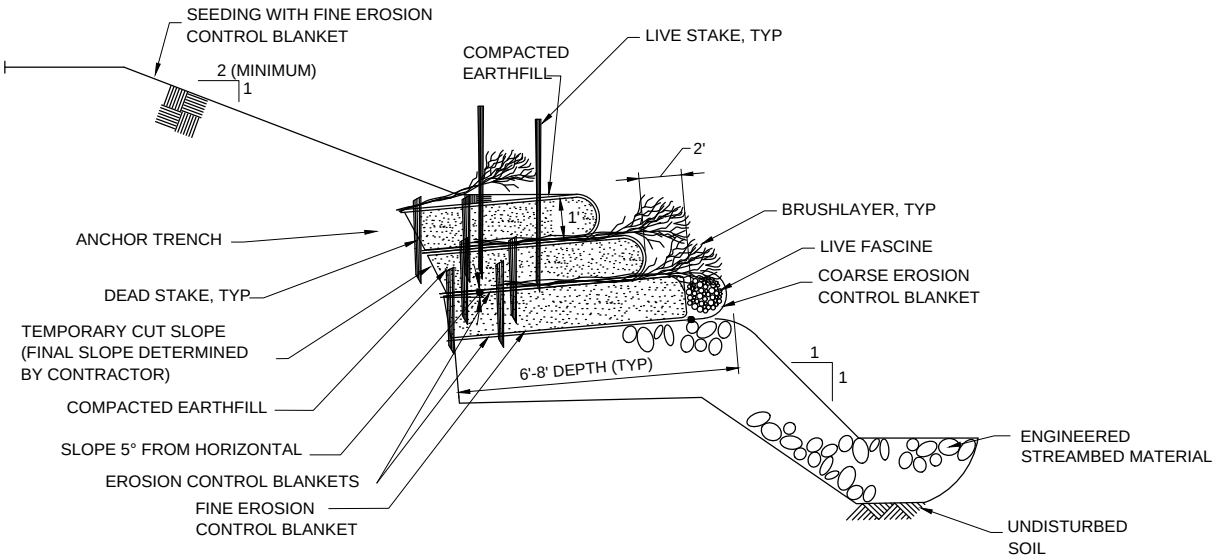


TYPICAL COAL CREEK - CONDO BANK SECTION
NTS

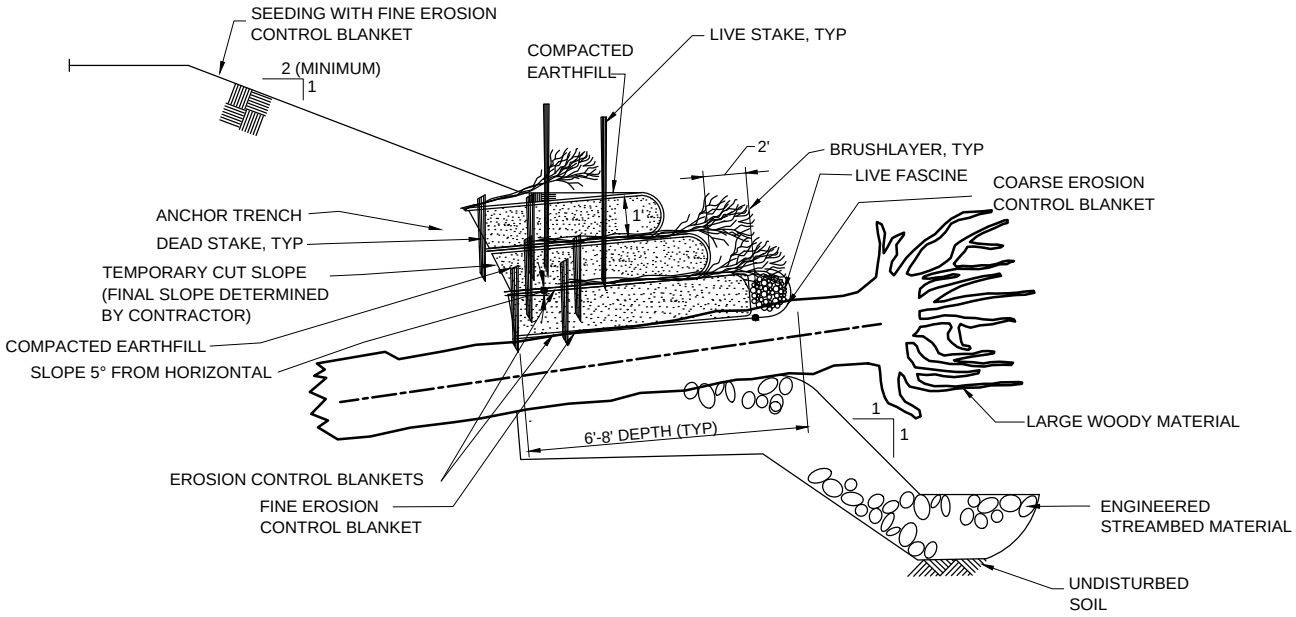


TYPICAL COAL CREEK CONDO LWM STRUCTURE SECTION
NTS

REFERENCE:	LOCATION: COAL CREEK NATURAL AREA	PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE IN: COAL CREEK; WETLANDS AND TRIBUTARIES
APPLICANT: JACOB SHEPPARD, KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTEWATER TREATMENT DIVISION	PARCELS: SEE JARPA FORM LAT/LONG: 47.567050N / -122.178972W	NEAR/AT: BELLEVUE COUNTY: KING
ADJACENT PROPERTY OWNERS: SEE JARPA FORM	SHEET 28 OF 29 DATE: 09/25/2020	STATE: WA



TYPICAL FABRIC ENCAPSULATED SOIL LIFT (FESL)
NTS



TYPICAL FABRIC ENCAPSULATED SOIL LIFT (FESL) WITH ROOTWAD
NTS

REFERENCE:	LOCATION: COAL CREEK NATURAL AREA	PROPOSED PROJECT: COAL CREEK TRUNK UPGRADE IN: COAL CREEK; WETLANDS AND TRIBUTARIES
APPLICANT: JACOB SHEPPARD, KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTEWATER TREATMENT DIVISION	PARCELS: SEE JARPA FORM LAT/LONG: 47.567050N / -122.178972W	NEAR/AT: BELLEVUE
ADJACENT PROPERTY OWNERS: SEE JARPA FORM	SHEET 29 OF 29 DATE: 09/25/2020	COUNTY: KING STATE: WA