Site Clearing and Management Plan

Revision: 04 September 4, 2024



LOWER DUWAMISH WATERWAY

Upper Reach Remedial Action

Contract KC001065

Prepared By:



700 S. Riverside Dr. Seattle, WA 98108



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1.0 Introduction

This Site Clearing and Management Plan outlines the procedures and methods to be implemented for the effective clearing and grubbing of the project site, in accordance with Section 31 11 00 (Clearing and



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Grubbing; Article 1.07). The plan includes detailed information on the areas to be cleared, the equipment and techniques to be used, the disposal of cleared materials, and the sequencing of activities to ensure minimal environmental impact. Additionally, it addresses the restoration of affected areas to their pre-construction conditions, ensuring compliance with all relevant regulations and project requirements. This comprehensive approach aims to facilitate a smooth and efficient site preparation process, setting the foundation for the subsequent phases of the project.

2.0 Locations and Extents of Proposed Areas to be Cleared and Grubbed

2.1 Reference Drawing

Refer to Figure 1 below from drawing G006 – SMA 5 Detailed Access Plan where clear and grub limits are shown. The full G006 drawing can be found in Attachment A.



LEGEND:



Figure 1. Clip of SMA 5 Detailed Access Plan drawing.

3.0 Methods, Procedures, and Equipment for Clearing and Grubbing

Section 31 11 00, Article 3.01, A.1 states "The Contractor shall notify the Project Representative prior to commencement of clearing and grubbing activities, including activities intended for survey or other Work Site investigation Work. Mark clearing limits for acceptance by the Project Representative prior to commencing clearing." PPM intends to perform this work first in the Construction Season 3 (October 1, 2026). Work will not commence until PPM has conducted the Pre-Construction Survey of SMA 5, it has been reviewed and approved by the Project Representative. Section 02 21 00, Article 3.05 D.3. States:



"The Construction Season Pre-Construction Survey shall be submitted to the Project Representative for review and acceptance at least 21 calendar days prior to the start of any In-Water Work at the Work Site each Construction Season."

3.1 Erosion & Sediment Control Measures

Prior to clearing and grubbing, erosion control measures will be installed to prevent soil erosion and sediment runoff. Prior to excavating on land, geotextile fabric shall be placed on the ground within the swing radius of the excavator to contain any material spilt from the bucket while loading the dump truck, and shall be weighted down with sandbags as needed. The fabric shall be cleaned daily of all spillage to maintain throughout the duration of work.

If there is any possibility of wet material, it will be hauled out and dewatered at the Transload Facility. The material from the planting area of SMA 5 is anticipated to be dry material.

Engineered measures such as loading hoppers, tailgate seals, catchment platforms, and loading ramps will be utilized during materials placement into the dump trucks to ensure all materials are placed within the truck and are not spilt out. These measures will be developed in the coming year and submitted prior the 2026-2027 construction season in an appendix to this plan. The dump trucks shall not be overfilled per Section 01 35 43, Article 3.07 A.11.: "Trucks or railcars shall not be overloaded to prevent loss due to spilling (minimum freeboard height of 6 or 36 inches, respectively, shall be maintained)." to prevent spillage of material during transport to 1. the on-site stockpile, or 2. the disposal facility.

3.2 Tree Protection Structures

Before any clearing and grubbing activities begin, tree protection structures will be installed to safeguard existing trees and vegetation that are to remain. Per Section 32 93 10 of the Project Specifications, temporary tree protection fencing is required where SMA 5 Work is occurring near a tree dripline. At minimum the temporary tree protection will include the following:

- **1.** Chain-link fence materials including (6' in height) rails, posts, braces, and mesh.
- 2. Mesh shall be 2 x 2 inches x 11-gauge minimum woven chain link fabric.
- **3.** Posts and rails shall be a minimum of 1 1/2 inch outer diameter (OD) steel pipe.
- **4.** Post bases shall be minimum 16-inch x 8-inch x 8-inch-high concrete piers with sleeves for posts, or Approved Equal accepted by the Project Representative.

Details regarding the tree protection fencing can be found in the fencing product data provided by the supplier. Details regarding the temporary tree protection fencing layout can be found in Figure 1.

3.3 Protective Barricades

Erect and maintain barricades and coverings to prevent damage to existing utilities, landscaping, and other site features during the clearing and grubbing operations.

3.4 Vegetation Removal

A 50 ton +/- 70' reach long reach excavator with digging and smooth lip buckets and/or a 50 ton +/- standard front excavator with digging and smooth lip buckets will be used to remove vegetation within the designated clearing area. The clearing process will include the removal of all vegetation, roots, stumps, and any trash or debris present.

3.5 Grubbing



Grubbing will involve the removal of roots, stumps, and other organic matter. Per Specification 31 11 00 3.01 A.5. vegetation is to be removed to a minimum of 12 inches below final excavation lines and grades, to remove organic matter.

3.6 Materials to be Cleared and Grubbed

Clearing and grubbing materials include topsoil, brush, trees, logs, heavy sod, vegetation, debris, objects, and structures that must be removed to prepare the Work Site for remedial activities. The materials are further described in Specification 31 11 00, Article 3.01, A.5.a.2. as "Selective invasive plant removal in SMA 5: 1) Any invasive non-native plants within the SMA 5 Planting Area shall be removed during performance of clearing and grubbing. 2) If invasive non-native plants are located outside the final Required Excavation Lines and grades but within the SMA 5 Planting Area, remove 12 inches of existing soil and dispose of material in an approved Disposal Facility(ies)."

4.0 Disposal of Cleared and Grubbed Material

4.1 Disposal Process

- Cleared and grubbed material that is free of contaminants will be collected and transported to a composting facility that will be determined prior to the 2026-2027 construction season
- Materials will be placed in sealed truck beds to prevent spillage during transportation.
- The trucks will then haul the materials to the compost facility

4.2 Disposal Facility

PPM will use a composting facility for disposal of the cleared and grubbed material. Detailed information for this facility will be determined and submitted to the PR for review and acceptance, prior to the 2026-2027 construction season. This plan will be updated with the site information when it is available.

5.0 Sequencing Approach for Clearing and Grubbing for Each Proposed Area

5.1 Work Sequence

- Notify the Project Representative and receive notice to proceed prior to commencement of work.
- Per Specification 31 11 00, Article 3.01, B., "Clearing and grubbing activities shall be performed in advance of removal of Dredge Debris, Identified Debris, Piling land-based excavation, and grading work."
- Clearing and grubbing activities will commence on one side of the site and progress systematically toward the opposite side (Fig. 1).
- This systematic approach ensures efficient use of resources and minimizes disruption to the surrounding environment.
- See Figure 2 below Draft Project Schedule snapshot for work sequence and timing, although the excavation will be moved up and done simultaneously with the Transportation and Disposal of Material to prevent lag between clearing and excavation. Refer to the Erosion and Sediment Control Plan for erosion mitigation efforts that will be implemented during the SMA 5 work to prevent any possible material leakage from the area.



SMA 5		48	16-Dec-26	26-Feb-27	0	\$2,019,736.34	
S3-4530	SMA5 - Debris Removal	1	16-Dec-26	17-Dec-26	0	\$47,136.34	Cost, 1200-6 Hitachi
S3-4540	SMA5 - Transportation and Disposal of Material	2	17-Dec-26	21-Dec-26	0	\$910,000.00	Cost, 1200-6 Hitachi
S3-4510	SMA5 - Bank Excavation	16	21-Dec-26	14-Jan-27	0	\$326,600.00	Cost, 1200-6 Hitachi
S3-4550	SMA5 - Material Placement - Engineering Cap A	13	14-Jan-27	03-Feb-27	0	\$621,000.00	Cost, 1200-6 Hitachi
S3-4560	SMA5 - Planting Preparation	5	03-Feb-27	10-Feb-27	0	\$89,000.00	Cost
S3-4570	SMA5 - Inspection	1	10-Feb-27	11-Feb-27	0	\$0.00	Cost
S3-4580	SMA5 - Landscaping	10	11-Feb-27	26-Feb-27	0	\$26,000.00	Cost

Figure 2. Draft Project Schedule – SMA 5 Activities Snapshot.

6.0 Planting Plan

6.1 Preparation of Subgrade

Per Specification 32 91 00, Article 3.02, subgrade soils outside of extent of Engineered Cap A will be ripped, disced, or scarified to a Minimum Depth of 12 inches. The soil within Driplines of existing trees is to remain untouched. A +/- 0.10-foot tolerance is allowed. Either a tiller, or the excavator bucket teeth can be used for scarifying the soil per the Contract Drawings. Soils shall not be worked in the presence of ponding or standing water (Article 1.07.)

6.2 Import, Inspect, Place, and Mix Topsoil

Prior to importing topsoil for placement in the planting area, a materials list of proposed materials demonstrating conformance with the requirements specified, including names, addresses, and certificates of all suppliers will be submitted per Contract Specification Section 32 91 00, Article 1.05. Also to be submitted prior to topsoil implementation: soil materials: 0.25-cubic-foot representative samples of imported topsoil, topsoil verification letter from soil supplier, and this Plan in accordance with above mentioned Contract Specifications.

After submitting required documentation and soil sample, the quality of the soil will be maintained during storage. Deliver products in manufacturer's standard containers bearing original labels containing the amounts, analysis, and name of manufacturer. Also, store the products in a way to protect them from weather or other damaging conditions that affect the effectiveness of the product (Section 32 91 00, Article 1.08.) The means and methods for storage of these products will be provided prior to the start of the work.

The topsoil shall be comprised of 60% sand, and 40% compost, as described below per Contract Specification Section 32 91 00, Article 2.01:

1. Testing requirements for gradation of Topsoil shall conform to ASTM (ASTM International) D6913.

2. Individual sand grains can be seen and felt readily. On squeezing in the hand when dry, it shall form a cast that will not only hold its shape when the pressure is released but shall withstand careful handling without breaking.

3. Topsoil shall have a pH range of 6.0 to 7.5. If pH range is between 5.5 and 6.0 or 7.5 and 8.0, dolomite lime, sulfur, or other amendments will be added prior to delivery as necessary to achieve design specified pH range.

4. Topsoil shall meet chemical quality criteria presented in Table 35 37 10-4 of Specification 35 37 10 (Material Placement).

5. Topsoil shall be free from debris, deleterious material, weeds, weed seeds, roots, rhizomes, woody material, and foreign matter that is detrimental to plant growth.



6. The organic amendment component shall consist of composted organic material as described below.

a. Topsoil shall contain sufficient quantities of available nitrogen, phosphorus, potassium, calcium, magnesium, sulfate, copper, zinc, manganese, iron, and boron to support normal plant growth. In the event of nutrient inadequacies, provisions shall be made to add required materials prior to planting.

7. All Topsoil shall be tested by an agricultural laboratory for sufficient quantities of available nitrogen, phosphorus, potassium, calcium, magnesium, sulfate, copper, zinc, manganese, iron, and boron. If there are nutrient inadequacies, required materials will be added prior to planting. Topsoil agricultural laboratory tests shall require total sulfur testing and conform to recommendations for sulfur limits provided by the agricultural laboratory.

8. Re-use of existing on-site soils as Topsoil is permitted if materials designated for reuse meet the requirements of this Specification. This will be determined after samples are taken and tested, prior to the start of the 2026 Construction Season.

Further requirements for the composted organic material shall be as follows according to Contract Specification 32 91 00, Article 2.02:

A. The Contractor shall use only Compost that has been tested within 90 days of submittal and meets the requirements in this Article. Compost not conforming to these requirements or taken from a source other than those tested and accepted shall not be used and shall be removed from SMA 5 immediately.

1. Per King County Code 28.86.090 BP-2, biosolids-derived Compost is the preferred organic soil amendment for King County projects.

2. If biosolids-derived Compost does not conform to the test characteristics required by this Article, the organic amendment product shall consist of 100% recycled organic feedstocks defined in Washington Administrative Code (WAC) 173-350 as "wood waste," "yard debris," "post consumer food waste," "preconsumer animal-based waste," and/or "preconsumer vegetative waste" that have been sorted, ground up, aerated, and aged and shall be fully composted, stable, and mature (non-aerobic). The composting process shall be for at least 6 months' time, and the organic amendment shall have a uniform dark, soil-like appearance.

- B. Product requirements:
 - 1. Compliance:

a. Compost shall be produced at a permitted solid waste-handling composting facility (Health Permit, Washington State Department of Ecology [Ecology] Stormwater Permit, Puget Sound Clean Air Agency Facility and Equipment Registration).

b. Compost production and quality will be in compliance with Ecology's specifications, which appear in WAC 173-350 Section 220, plus the following additional requirements.

c. Compost shall be certified by the Process to Further Reduce Pathogens guideline for hot composting as established by EPA.



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2. Test Characteristics:

a. Compost will be mature with regard to its suitability for serving as a soil amendment. Maturity shall be greater than 80% in accordance with United States Composting Council (USCC) Test Method for the Examination of Composting and Compost (TMECC) 05.05-A.

b. Compost shall have a moisture content that has no visible free water or dust produced when handling the material.

c. The material shall be certified free of all plant parasitic organisms, viable weed seeds, heavy metals, and parasitic residues. It shall contain no more than 0.5% foreign material (plastic, concrete, ceramics, and metal), including no more than 0.1% film plastic, on a dry weight basis as determined by USCC TMECC 03.08-A.

d. Carbon to Nitrogen (C:N) Ratio: Between 25:1 and 35:1

e. Minimum Organic Content: 40% of dry weight as determined using USCC TMECC 05.07-A

f. pH: Between 6.0 and 8.8, tested in accordance with USCC TMECC 04.11-A

g. Soluble Salt Content: Less than 4.0 micro mhos/cm, when tested in accordance with USCC TMECC 04.10

h. Stability: 4 milligrams CO2-C/g organic matter/day or below, in accordance with the USCC TMECC 05.08-B

i. Heavy Metals: Concentrations must be below the Washington State limits in accordance with WAC 173-350.

j. Topsoil shall meet chemical quality criteria presented in Table 35 37 10-4 of Section 35 37 10 (Material Placement).

U.S. STANDARD SIEVE SIZE	PERCENT BY DRY WEIGHT, PASSING				
1 inch	100				
5/8 inch	85 to 100				
1/4 inch	75 to 85				

k. Compost shall meet the following gradation:

I. Shall have heavy metal concentrations that conform with Table 220-B of WAC 173-350-220, as follows:



MAXIMUM CONCENTRATION (ppm)
20
10
750
150
8
9
210
18
1400

Note: ppm: part per million

Further requirements for the sand component of the topsoil shall be met as follows:

U.S. STANDARD SIEVE SIZE	PERCENT BY DRY WEIGHT, PASSING			
3/8 inch	100			
1/4 inch	95 to 100			
No. 10	85 to 95			
No. 30	60 to 75			
No. 60	50 to 60			
No. 100	20 to 30			
No. 200	0 to 5			

A. Sand shall meet the following specifications within reasonable variations:

Prior to installation, the soil preparation material shall be inspected by the Project Representative. The Project Representative shall approve or reject the material, dependent upon the material meeting all of the above requirements and the condition of the material. Rejected material shall be returned to sender and replaced with new material.

Equipment shall be decontaminated using pressure washer equipped with a detergent additive reservoir to remove all soils and sediments. The detergent of choice will be selected closer to the 2026 Construction Season, and more information on the products used will be provided.

Following completion of all clearing and grubbing work involving contaminated soils and sediment or prior to moving to a different task not related to the handling of contaminated soils and sediments, equipment directly in contact with contaminated materials shall be decontaminated.

Decontamination is only expected to be required for the excavator and crane buckets, as well as the dump truck to be utilized for spoils movement from the excavation area to the onsite stockpile. Spillage during transport of spoils from the excavation area to the on-site stockpile is not anticipated to occur.

Equipment decontamination shall occur over a large Eco Pan which shall contain all water generated by the decontamination procedures. Decontamination water will be pumped from the Eco Pan into an on- site baker tank used to store process and decant water. As needed, process and decant water shall be pumped from the baker tank into a tanker truck and transported offsite for disposal at a legal disposal site.



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As stated in the Transloading and Best Management Practices section of this plan, BMPs shall be utilized during the loading of disposal trucks to prevent spilt material and contamination of the tires or sides of the truck itself. As such, no regular decontamination of disposal trucks is anticipated.

6.3 Compaction/Decompaction

After the placement of the topsoil in the planting area, decompact or compact soils as necessary to maintain all applicable standards. Compaction shall not exceed a proctor maximum dry density of 85%. Testing requirements for soil compaction shall conform to ASTM D698 (Specification 32 91 00, Article 3.04.)

6.4 Fine Grading and Inspection

Following successful completion of placement and compaction of topsoil in the planting area, fine grading is to be performed. Per Specification 32 91 00 Article 3.05: Perform fine grading to attain finish grades as shown on the Contract Drawings. See Attachment B for grading elevation requirements. Rake out all rocks, roots, sticks and other debris larger than 2 inches in diameter or sticks longer than 4 inches long. Leave surface even and readily able to accommodate planting installation. Inspection must occur before planting can begin. The contractor shall notify the Project Representative at least 48 hours before the required time of inspection for completion of soil preparation.

6.5 Planting

Following Project Representative acceptance of completion of soil preparation, the Temporary Irrigation Plan, and acceptance of plant material, the planting will commence. See drawings C305 (Attachment B), L101, and L301 (Attachment C) for SMA 5 Engineered Cap A and planting details. Refer to Specification 32 93 00 for planting methods and requirements.

7.0 Methods and Procedures to Restore Similar Function to Affected Areas to Pre-Construction Conditions

7.1 Removal of Protective Structures

Once the clearing and grubbing operations and planting is complete, all protective structures installed earlier will be removed.

7.2 Erosion Control Removal

Erosion control measures put in place at the beginning of the project will be carefully dismantled and removed after final site stabilization (planting) is completed.

7.3 Temporary Facilities Removal

Any temporary facilities set up to aid in the clearing and grubbing process will be disassembled and removed from the site after final site stabilization is completed.

7.4 Utilities Interference, Relocation, and/or Removal

Per Specification 31 11 00, Article 3.01, D. & E.: PPM will protect existing utility lines from damage and will immediately notify the Project Representative of any damage to, or encounter with, an unknown



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existing utility line. PPM will be responsible for the repairs of damage to existing utility lines that are indicated or made known to them prior to the start of clearing and grubbing operations. PPM will notify the Project Representative in ample time, when encountering utility lines to be removed within the area of operations, to minimize interruption of the service. Where existing utilities interfere with the Work, PPM will notify the Project Representative and coordinate necessary relocation with the utility owner in accordance with Section 01 19 50 (Protection and Maintenance of Property and Work). PPM will call or put a ticket in to the Washington Utility Notification Center prior to the start of any excavation.

7.5 Site Restoration

The site will be restored to its pre-construction conditions as closely as possible, ensuring the restoration of similar function and appearance. According to Specification 31 11 00, Article 3.01, C.: "C. Restoration of Work Site: 1. The Contractor shall restore similar function of any affected areas during Work to pre-construction conditions, to the satisfaction of the property owner(s) and acceptance of the Project Representative. 2. The Contractor shall implement the Site Clearing and Management Plan. a. Mark clearing units prior to clearing. b. Preserve and provide protection for the following: 1) Adjacent facilities: Exercise extreme care to prevent damage to adjacent facilities that are to remain. 2) Monuments: Carefully maintain benchmarks, monuments, and other reference points. If disturbed or destroyed, replace as directed. Note the position of all monuments on the As-Built Drawings. c. Receive acceptance from the Project Representative to remove marked clearing units and trees. d. Maintain clear right-of-way for required construction and for access to the Work Site. Remove vegetation only as required. e. The Contractor shall not perform any general clearing and grubbing of the Work Site that leaves areas exposed that will not have immediate follow-up construction. f. All Erosion and Sediment Control Plan measures per Section 31 25 00 (Erosion and Sedimentation Control) shall be in place prior to clearing and grubbing. g. Adhere to City of Seattle and City of Tukwila seasonal restrictions for land clearing.



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Attachment A

SMA 5 Detailed Access Plan



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Attachment B

Grading Elevation Requirements



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RIAL TYPE 1A		MATERIA	MATERIAL TYPE 2		MATERIAL TYPE 4		MATERIAL TYPE 5		
)	PERCENT BY DRY WEIGHT, PASSING	U.S. STANDARD SIEVE SIZE	PERCENT BY DRY WEIGHT, PASSING	U.S. STANDARD SIEVE SIZE	PERCENT BY DRY WEIGHT, PASSING	U.S. STANDARD SIEVE SIZE	PERCENT BY DRY WEIGHT, PASSING		
S	99 TO 100	3/8 INCH	100	2-1/2 INCHES	100	8 INCHES	100		
	80 TO 100	U.S. NO. 4	99	2 INCHES	65 TO 100	3 INCHES	40 MAX		
	50 TO 80	U.S. NO. 8	75 TO 82	3/4 INCH	40 TO 80	3/4 INCH	10 MAX		
	25 TO 45	U.S. NO. 16	44 TO 59	U.S. NO. 4	0 TO 5				
)	3 TO 18	U.S. NO. 30	19 TO 37	U.S. NO. 200	0 TO 1				
0	0 TO 5	U.S. NO. 50	4 TO 16						
		U.S. NO. 100	1 TO 5						
	•	U.S. NO. 200	0 TO 2						

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untv	MATERIAL PLACEMENT DETAILS		C305	
	LOWER DUWAMISH WATERWAY UPPER REACH REMEDIAL ACTION	DRAWING	CEMBER 2023 G NO:	
		O D ATF ⁻	THIS DRA COLOR IMA MUST BE REPRODUC	
		LOR IMAGE	WING IS COMPOSED US GES OR PHOTOGRAPHS E PLOTTED, PRINTED, AN ED IN COLOR TO BE VIE ACCURATELY.	1
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Attachment C

Planting Details

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in the second						
4	-10					
	PLANT SCHED					
	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	QUANTITY	NOTES
		RIP	ARIAN SEED MIX			
3	SEE SPECIFICATION FOR	R SEED MIX SPECIES	N/A	N/A	3,289 SQUARE FEET	SEE SPECIFICAT FOR PERCENT WEIGHT ANI APPLICATION R.
		RIPARI	RY 2' 0 C	390		
	UVA-URSI		4-INCH POT	2'00	390	
hita	FRAGARIA CHILEONSIS	STRAWBERRY	4-INCH POT	5'00		
	HOLODISCUS DISCOLOR	OCEANSPRAY	CONTAINER	5'00	44	CLUSTER SPECI
	ROSA NUTKANA		CONTAINER	5'0.0	44	
A A A	RUBUS URSINUS	BLACKBERRY	CONTAINER	5 0.0.	44	
	SYMPHORICARPUS ALBA	SNOWBERRY	CONTAINER PARIAN TREES	5 0.0.	44	
	ACER MACROPHYLLUM	BIG LEAF MAPLE	5 GAL. CONTAINER	AS SHOWN	8	
	ALNUS RUBRA	RED ALDER	5 GAL. CONTAINER	AS SHOWN	5	
	CRATAEGUS DOUGLASII	DOUGLAS HAWTHORNE	5 GAL. CONTAINER	AS SHOWN	6	
	MALUS FUSCA	PACIFIC CRABAPPLE	5 GAL. CONTAINER	AS SHOWN	6	
$\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	PINUS CONTORTA VAR. CONTORTA	SHORE PINE	5 GAL. CONTAINER	AS SHOWN	6	
o showing	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	5 GAL. CONTAINER	AS SHOWN	8	
				Lower Du	wamish V	Vaterway G rou
				City of Seatt	le / King County	/ The Boeing Company
					X ANO	
NO	REVISION DESCRIP	TION B'	Y APVD DATE	*		

DITION: XACW ID-USIZE-1 cts\0067-King County\LDW 2 2024-11-07-13am Bv ib







- 1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
- 2. VERTICAL DATUM: MLLW
- 3. PLANTING SHALL OCCUR AFTER CONSTRUCTION OF ENGINEERED CAP.
- 4. CONTRACTOR TO COORDINATE WITH PROPERTY OWNER ON LANDWARD FENCE RESTORATION REQUIREMENTS AND SHALL REINSTALL FENCE OF THE SAME TYPE AND DETAIL AS THE FENCE THAT WAS REMOVED.
- 5. LANDWARD FENCE RESTORATION SHALL ALLOW FOR CONTRACTOR MAINTENANCE ACCESS DURING THE MAINTENANCE PERIOD.





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