

Maury Island Open Space Property Engineering Design Report

Prepared for

King County Parks & Recreation Division

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CITATION

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CERTIFICATION

The technical material and data contained in this document were prepared under the supervision and direction of the undersigned, whose seal, as a professional engineer licensed to practice as such, is affixed below.

07/27/20



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KEY TERMS

µg	micrograms
µg/kg	micrograms per kilogram
µg/L	micrograms per liter
Cleanup Unit	Cleanup Action for the Maury Island Open Space Property Cleanup Unit
COCs	contaminants of concern
County	King County
DCAP	Draft Cleanup Action Plan
Ecology	Washington State Department of Ecology
EDR	Engineering Design Report
FS	Feasibility Study
HAZWOPER	Hazardous Waste Operations and Emergency Response
IAP	Interim Action Plan
kg	kilogram
mg	milligram
mg/kg	milligrams per kilogram
MTCA	Model Toxics Cleanup Act
MTCA	Model Toxics Control Act
NEBA	Net Environmental Benefit Analysis
PAHs	Polycyclic Aromatic Hydrocarbons
RI/FS	Remedial Investigation/Feasibility Study
SCO	Sediment Cleanup Objective
SCUM II	Sediment User's Cleanup Manual II
TCLP	Toxicity Characteristic Leaching Procedure
TEF	toxicity equivalency factors
TSP	Tacoma Smelter Plume
WAC	Washington Administrative Code
WSDOT	Washington State Department of Transportation

1. INTRODUCTION AND BACKGROUND

This Engineering Design Report (EDR) describes the engineering concepts and design criteria to be used for design of the Cleanup Action for the Maury Island Open Space Property (Cleanup Unit) (Facility Site I.D. #2901216). It is intended to provide sufficient information for the development and review of construction plans and specifications. The report has been formatted to address the information requirements for EDRs contained in the Model Toxics Cleanup Act (MTCA) Cleanup Regulations, Section Washington Administrative Code (WAC) 173-340-400(4)(a).

This EDR has been prepared per the requirements of Agreed Order No. DE 8439 (dated January 31, 2013) (Ecology 2013), between the Washington State Department of Ecology (Ecology) and King County (CDM 2014a). The Cleanup Unit is located on the southeast side of Maury Island in unincorporated King County (County), Washington (Figure 1), and lies within the larger Tacoma Smelter Plume Site.

1.1 Goals of the Cleanup Action

The goals of the cleanup action are to:

- Meet the conditions of the Cleanup Unit's Agreed Order with Ecology.
- Implement the preferred remedial alternative selected during the site's Remedial Investigation/Feasibility Study (RI/FS; Parametrix 2017a).
- Attain the selected cleanup standards for each hazardous substance and each medium of concern throughout the site.
- Implement, monitor, and maintain institutional controls as described in Draft Cleanup Action Plan (DCAP; Parametrix 2017b).

1.2 General Facility Information

The Cleanup Unit is approximately 266 acres in size and is the former location of a sand and gravel mine operated by CalPortland (Figure 2). The mine was located within the central portion of the Cleanup Unit, most of which is steeply sloped and all of which is now sparsely vegetated, primarily with scotch broom and Pacific madrone. The remainder of the Cleanup Unit consists of over 100-year-old forests, younger forests, blackberry patches, and sea bluffs covered in blackberries, poison oak, and Pacific madrone. The public have created a series of footpaths through the forests and utilize these, as well as former graded dirt roads, as casual walking trails (CDM 2014a).

All of Maury Island lies within the plume fallout area from the former ASARCO Tacoma Smelter. The copper ores used by the ASARCO smelter contained high concentrations of arsenic and other metals. Over the years of operation, metals released from the Tacoma Smelter's smokestack, particularly arsenic and lead, were carried by wind, ultimately settling over a 1,000-square-mile area. As a result of this, surface soils within much of the Tacoma Smelter Plume (TSP) fallout area contain arsenic and lead concentrations that are many times greater than natural background concentrations. The soils on Maury Island are among those most significantly impacted from the TSP, and the Cleanup Unit itself lies within an area most greatly impacted by the TSP on Maury Island.

In June of 2014, CDM Smith Inc. (CDM 2014a) completed a RI for the Cleanup Unit. The RI determined that metal concentrations in forest duff and surface soil throughout the Cleanup Unit, with the exception of recently mined areas and the beach, consistently exceed Model Toxics Control Act (MTCA)

cleanup Levels. Research of the Cleanup Unit's land use history identified one additional source of contamination – an area that had previously been utilized as a private skeet shooting range (Figure 2). The RI confirmed that former skeet shooting activities resulted in an area of relatively greater lead concentrations than found throughout the rest of the Cleanup Unit, as well as an area where surface soils are impacted by Polycyclic Aromatic Hydrocarbons (PAHs) from skeet shards.

In May 2014, CDM Smith completed a Net Environmental Benefit Analysis (NEBA) for the Cleanup Unit (CDM 2014b.). The NEBA concluded that the bluffs and much of the upland areas are eligible for the application of NEBA because these areas contain “especially valuable habitat.” Therefore, a cleanup alternative involving removal of soil would result in greater environmental harm than an alternative of leaving the contaminated topsoil in place. Ecology concurred with the NEBA determination. Therefore, based on the NEBA, remedial alternatives developed for the Cleanup Unit additionally took into account the protection of the environment for those Units that qualify for the NEBA.

Decision units within the Cleanup Unit that did not qualify for the NEBA included three upland areas that have been cleared in the past and are now vegetated primarily with grass, blackberry bushes, and scotch broom (Units 3c, 3e, and 5; Figure 3).

Following the 2014 RI and NEBA, King County conducted an additional investigation of the wetland soils/sediments in Unit 5 to document the nature and extent of impacts to indicator species from arsenic, lead, and PAHs.

In April 2017, Parametrix completed a Feasibility Study (FS) for the Cleanup Unit (Parametrix 2017a). The FS developed and assessed five remedial alternatives that implement a combination of cleanup approaches including limited contaminated soil removal, soil capping, and institutional controls. The alternatives are summarized below:

- **Alternative 1** – Closure of selected trail spurs. Capping the entire network of forest footpaths. Excavating soils on roads/trails that exceed cleanup levels. Excavating contaminated surface soils in areas that do not pass the NEBA.
- **Alternative 2** – Same as Alternative 1, except that soils will be contained below grade in two separate areas that did not pass the NEBA, one of which will be capped by a visitor parking lot to be constructed in the portion of the former trap range area that does not pass the NEBA.
- **Alternative 3** – Closure of selected trail spurs. Capping the entire network of forest footpaths. Conducting soil mixing for soils cleanup levels. In the portion of the former trap range area (Unit 5) that does not pass the NEBA, strip off the organic layer and cap with gravel for use as an equestrian parking lot. Soils in the other two areas that do not pass the NEBA (Decision Units 3c and 3e) will be left in place because both of these areas are heavily vegetated with blackberry bushes and virtually impassible by humans.
- **Alternative 4** – Same as Alternative 3, except that capping of the footpaths will be limited to a main thoroughfare.
- **Alternative 5** – Modification of Alternative 4 including revegetation of Units 3c and 3e. Cap graded roads with a minimum of 3 to 4 inches of compacted gravel and a 3-inch-thick layer of mineral soil (or equivalent) to protect horse's hooves and dog's feet. Trails to be eliminated will be decommissioned by the cessation of trail maintenance. Hygiene stations will be placed at all main trail heads. In Unit 5, clearing and grubbing will only be performed for an area large enough to construct a 40- to 50-stall gravel parking lot. The cleared area will be graded and a gravel parking lot and driveway will be constructed by placing a minimum of a 6-inch-thick layer

of compacted gravel. A 6-foot chain link fence will be placed around the perimeter of the gravel parking lot and driveway to discourage visitors from walking through the former skeet range area. Limited remediation in the adjacent wetland will be done where lead exceeds allowed levels.

The result of the FS was selection of Alternative 5 as the preferred alternative. The FS was approved by Ecology on May 18, 2017 (Figure 4).

1.3 Property Ownership

The Maury Island Open Space owned by the King County Department of Parks and Recreation, 201 South Jackson Street, Suite 700, Seattle, Washington, 98104. King County Parks will own, maintain, and operate the cleanup unit in perpetuity.

1.4 Facility Maps

Cleanup Unit site features prior to any cleanup activities are shown on Figure 2. Figure 3 shows decision units developed as part of the RI/FS as well as monitoring well locations. Figure 4 presents the preferred cleanup alternative selected during the RI/FS (Alternative 5). Figure 5 provides a graphical representation of cleanup work performed to date.

1.5 Characteristics of the Cleanup Unit

1.5.1 Geologic and Hydrogeologic Conditions

The Cleanup Unit is underlain primarily by sediments deposited during and between repeated glacial advances and retreats in the Pleistocene Epoch. The upland areas are mantled by Vashon till and recessional outwash including stratified sand and gravel ranging from approximately 3- to 12 feet thick. Limited perch water may be present seasonally on a discontinuous basis in areas where till is present.

Groundwater at the site occurs at depths of approximately 200 feet below ground surface with a consistent flow direction towards the Puget Sound. Springs occur at the contact between the Vashon advance outwash and the underlying less-pervious silt and clay of the pre-Vashon unit where exposed near sea level along the beach (AESI 1998). The primary surface water feature is the Puget Sound, which forms the southeastern boundary around the Cleanup Unit at a distance of approximately 4,800 feet.

1.5.2 Soil Characteristics

Summary statistics for arsenic, lead, and PAHs in soil are provided below.

Contaminants Exceeding Cleanup Levels:

- Arsenic: Up to 2,600 milligrams/kilograms (mg/kg) and 2,550 mg/kg in duff and surface soil, respectively,
- Lead: Up to 2,600 mg/kg and 2,520 mg/kg in duff and surface soil respectively , and
- PAHs (based on benzo(a)pyrene: Up to 112,617 micrograms/kilograms (µg/kg) in forest duff.
- Cadmium did not exceed cleanup levels in surface soil samples.

Overall, metal concentrations decline rapidly with depth. The data suggests that when subsurface soils (i.e., 9 inches and deeper) contain elevated metals concentrations, it is because of physical transport mechanisms other than leaching, such as fill, inexact sampling practices that may have caused cross

contamination from surface soils, and/or bioturbation (soil disturbance due to organismal movement) (CDM 2014a.).

The beach sands are not contaminated. This is because of the low cation exchange capacity of sand (the result is that the metals have very little ability to adsorb to the sand), combined with the constant movement of beach sands. Samples were collected at the bluff face at the edge of the beach and from slough accumulations along the base of the bluff. Arsenic concentrations ranged from 1.8 to 27 mg/kg. Lead concentrations ranged from 1.5 to 31 mg/kg.

The skeet range was inspected for the presence of shards and an area of shards were identified just to the north and east of the eastern trap station. Samples were collected from this area, specifically for PAH analysis. Several of the prior sample locations were inspected for the possible presence of shot in forest duff and soil. Shot was confirmed at most of the locations, although sometimes it was difficult to ascertain shot from small gravel due to the discoloration that occurs with weathering. These observations substantiate the premise that the relatively higher lead concentrations in a portion of Unit 5 are the result of historical skeet shooting activities (Parametrix 2017a).

1.5.3 Groundwater Characteristics

The results of spring water sampling conducted for the RI and historical sampling data from seeps and on-site observation wells demonstrate that groundwater and spring water have not been impacted by metals and that ingestion of impacted groundwater is not a potential human exposure pathway at the site (Parametrix 2017a). Groundwater was not evaluated for the presence of PAHs during the RI because these hazardous substances were not identified as contaminants of concern (COCs) for groundwater.

1.5.4 Wetland Soil Characteristics

Arsenic and lead in most of the wetland soil samples exceeded cleanup screening levels and toxicity was observed in some of the bioassays. The bioassay toxicity appeared to be primarily related to elevated lead levels, but not related to arsenic.

1.6 Cleanup Levels

Applicable cleanup levels were established during the RI/FS and consist of the following:

1.6.1 Human Health

1.6.1.1 Soil

The Final Interim Action Plan (IAP) for the Tacoma Smelter Plume (Ecology 2012) established that the MTCA Method A soil cleanup levels for unrestricted land use are applicable within the TSP. As the Cleanup Unit falls within the TSP, MTCA Method A cleanup levels are applicable. Because forest duff is an integral part of the soil matrix, Method A cleanup levels also apply to forest duff. The IAP also determined that arsenic and lead cleanups driven by TSP will also address all other hazardous substances from the smelter emissions. This is because, while other metals sometimes exceed MTCA cleanup levels, the frequency of this is much less. The Method A unrestricted land use soil cleanup levels are: 20 mg/kg for arsenic and 250 mg/kg for lead.

The Method A cleanup level for PAHs is based on the toxic equivalency method with the Method A cleanup level for benzo(a)pyrene (0.1 mg/kg) being the basis for comparison. For this method, toxicity

equivalency factors (TEF) are used to calculate the toxicity of individual cPAH on an equivalent basis with benzo(a)pyrene. The adjusted concentrations are then summed and compared to the Method A cleanup level for benzo(a)pyrene.

1.6.1.2 Water

There are various drinking water and marine criteria for metals in addition to Method A, including the National Toxics Rule criteria, state groundwater and drinking water standards. Under MTCA, the cleanup standards are based on the most stringent of all regulatory standards, or background, whichever is greater. Since the MTCA Method A standard for arsenic is based on background for Washington State, the groundwater cleanup standard defaults to Method A, which is 5 micrograms per liter ($\mu\text{g/L}$). For cadmium, the lowest of the groundwater and marine standards is Method A, which is 5 $\mu\text{g/L}$. For lead, the lowest value is the chronic marine standard for protection of aquatic life, which is 8.1 $\mu\text{g/L}$. None of these standards were exceeded for groundwater or spring/seep water, so no remedial actions are required for groundwater or spring/seep water.

1.6.2 Terrestrial Ecological

1.6.2.1 Soil

The NEBA concluded that cleanup alternatives involving removal of soil in Units 1a, 1b, 2c, 3a, 4a, 4b, 4c, and a portion of 5 would result in greater environmental harm than an alternative of leaving the contaminated topsoil in place. Therefore, the remedial alternatives developed for the Cleanup Unit considered the protection of the environment for those Units regardless of the arsenic and lead concentrations.

1.6.3 Wetlands

Wetland areas that are inundated for more than 6 or more consecutive weeks per year are regulated under WAC 173-204 (Sediment Management Standards) and should therefore be assessed for toxicity using the Sediment User's Cleanup Manual II (SCUM II). The bioassay analyses conducted for the wetland located in Decision Unit 5 found elevated lead levels as the primary concern. The NEBA already concluded that the non-inundated areas of Decision Unit 5 are applicable for the application of NEBA because they contain "especially valuable habitat." For inundated wetland areas, WAC 173-204-560 establishes initial sediment cleanup levels Sediment Cleanup Objective (SCO) of 360 mg/kg for lead in freshwater. An upward adjustment can be made to the SCO of 360 mg/kg (Pb) if it can be shown that by achieving the SCO there will be a net adverse environmental impact on the aquatic environment. However, the limitation is that the upward adjustment may not exceed the Cleanup Screening Level of (>1300 mg/kg)

For this reason, inundated wetland areas under 1,300 mg/kg would not be proposed for remediation because, similarly to the terrestrial habitat, it would do more harm to the habitat than good. For areas over 1,300 mg/kg some level of remediation is required. The soil and duff samples taken as part of the RI and bioassay analysis show that only a portion of the inundated wetland area exceeds this threshold for lead, and in those areas that do exceed the threshold, the high lead levels

2. ENGINEERING DESIGN CRITERIA

Engineering design criteria for the cleanup unit are based on Alternative 5 from the RI/FS. Design criteria and approach for implementing the criteria are described below.

1. Limited soil removal shall occur in Decision Units 3c and 3e (Figure 2) along with the clearing of invasive plants. The area will then be covered with a minimum 3 inches of a compost cap and revegetated with native plants in phases. This will be done in phases with 3 acres being cleared and then covered with weed fabric for 3 years prior to removing the weed fabric in and planting. See Table 1 for of a proposed construction schedule. The objective is to provide dense mature native plantings that will provide a physical barrier that will discourage foot traffic. The compost layer will provide a physical barrier that will reduce the potential for direct contact with underlying soils.

Table 1. Proposed Schedule*

Work Element	Period or Completed By
Interim Action	Q3 2016 – Q1 2017
Phase 1 Implementation/Construction	Q4 2019 - Q2 2021
Phase 2 Construction Contract Documents Ready to Advertise	Q2 2023
Phase 2 Implementation/Construction	Q2 2023 - Q4 2023
Phase 3 Implementation/Construction	Q2 2023 - Q4 2026
First 5-Year Summary Monitoring Report	Q2 2025
First 5-Year Review	Q4 2025
Phase 4 Implementation/Construction	Q2 2029 – Q4 2029
Phase 5 Implementation/Construction	Q2 2032 – Q4 2032

* Interim Action included revegetation of 3 Acres of Area 3C
 Phase 1 includes trail/road capping, parking lot construction, and clearing of 3 Acres of Area 3C
 Phase 2 includes replanting of 3 acres of Area 3C, clearing 3 more acres of 3C and Wetland Remediation
 Phase 3 includes replanting of 3 more acres of Area 3C and clearing 3 more acres of 3C
 Phase 4 includes replanting of the final acres of Area 3C and clearing Area 3E
 Phase 5 includes replanting of Area 3E

2. Cleanup work may include removal of non-historic obstructions including chain link fence along SW 260th Street. Other structures, such as the old mining apparatus, may be completely or partially removed if it is deemed necessary for safety reasons.
3. Gravel roads and all existing trails with contamination values over the cleanup threshold shall be capped with a minimum of 3 to 4 inches of compacted, crushed gravel meeting the Washington State Department of Transportation (WSDOT) specifications for Crushed Surfacing Top Course (CSTC) or equivalent. A 3-inch-thick layer of compacted mineral soil (or equivalent) shall be placed on top of the gravel in selected areas of trail to protect horse’s hooves and dog’s feet. Areas of trail and gravel road cap subject to erosion from surface water runoff shall be protected by underlying the CSTC with a 6- to 8-inch-thick layer of crushed rock meeting the WSDOT specification for Permeable Ballast.

4. Institutional controls in the form of signage shall be placed at selected locations along the trails and gravel road to indicate that hikers should stay on maintained trails due to the presence of lead and arsenic contaminants in off-trail forest areas.
5. Benches, picnic tables, picnic shelters, signage, and kiosks shall be located adjacent to the capped trails at several locations. Historical markers or signage may be added in this area to document the farm. These amenities shall be located on pads constructed of 3 to 4 inches of the same compacted gravel used for the trail cap.
6. In Unit 5, clearing and grubbing will only be performed for an area large enough to construct a parking lot which will accommodate both cars and equestrian trailers. The parking lot will be constructed using clean imported materials and shall be designed to meet applicable King County traffic and drainage requirements.
7. Decorative wood fencing shall be placed around the perimeter of the parking lot backed with dense thorny native vegetation to encourage visitors to stay on the capped parking lot and trail areas. A new connector trail shall be constructed to connect the parking lot to the existing trail network. New trails would be constructed using the same treatment described above for the capped trails.
8. Additional testing shall be conducted in the inundated areas of the Decision Unit 5 wetland to determine where lead levels exceed the Cleanup Screening Level of >1,300 mg/kg lead. Remediation would be done in these areas to bring lead levels below 1,300 mg/kg. Based on existing data, this remediation can likely be achieved by removing the duff layer and surface soil in select locations only. Any remediation performed would be the minimum necessary to meet cleanup requirements while protecting the existing habitat. This remediation would be coordinated with the phased revegetation of Units 3c and 3e.
9. Vegetation mixed with soil and soil removed during clearing and grubbing for revegetation, trail construction, and parking lot construction shall be disposed of at a permitted off-site landfill. These materials shall be segregated and tested for arsenic and lead prior to disposal. Waste manifests shall be used to track the materials during transportation to the disposal landfill. Testing requirements shall be determined by the landfill. Sample collection frequency and testing methods shall meet the requirements of MTCA and the Ecology document *Guidance for the Remediation of Petroleum Contaminated Sites*, dated October 2011. This document specifies sample collection methods and testing frequency for stockpiled soil. The required number of samples is based on the volume in cubic yards of individual stockpiles. At a minimum, tests shall include total lead and arsenic and leachable lead and arsenic using the Toxicity Characteristic Leaching Procedure (TCLP). The testing laboratory shall be accredited by Ecology for the tests being performed.
10. Clean vegetation may be disposed of in off-trail wooded areas.
11. Imported materials such as mineral soil or crushed surfacing shall be tested for total lead and arsenic at a minimum frequency of one test per 200 tons. Samples shall be collected from material stockpiles located at the production facility. Materials soil containing arsenic and/or lead exceeding MTCA cleanup levels established for the site (20 milligrams per kilogram arsenic and 250 milligrams per kilogram lead) shall not be accepted for delivery to the site. Test results shall be provided to the Engineer for acceptance at least 2 days prior to delivery of the material. Individual truck tickets shall be provided upon the truck's arrival at the site that indicate which

test results (including sample numbers) correspond to the material in the truck. Truck tickets shall include tonnage for that truck.

The above criteria were applied to the design of the Interim Action performed at the site in 2016/2017 (Parametrix 2016). This work involved revegetation of approximately 3 acres of Decision Unit 3C.

Trail and gravel road capping was conducted in 2019 and 2020 as part of Phase 1 construction at the site. The new section of trail connecting the future parking lot to the existing trail system was also constructed. Refer to the record drawings provided in Appendix A.

Parking lot construction is currently planned for late 2020, early 2021 as the second part of Phase 1 construction. This work will include clearing of an additional 3 acres of Unit 3C and covering the area with weed fabric for three years before replanting to kill the invasive vegetation seedbank. Refer to Appendix B for draft final construction plans.

The plans provided in Appendices A and B, as well as the associated construction specifications shall be used as templates for preparation of plans and specification for future phases of cleanup work.

2.1 Compliance Monitoring

Compliance monitoring must be performed such that protection of human health and the environment can be confirmed. As described above, confirmation sampling will be conducted for imported soils and for vegetation and soil destined for disposal at an off-site landfill. Health and safety compliance monitoring shall be conducted during construction including monitoring during excavation activities to ensure that any necessary actions to control discharges of dust are taken before it poses a potential health/environmental issue. Finally, compliance monitoring will be conducted during construction to ensure that the work meets design specifications (e.g., thickness of gravel caps will be spot measured).

Following construction, County staff will inspect the site quarterly to check for vandalism and maintenance issues such as the presence of large eroded cap areas that require repair or areas of dead vegetation in the revegetation area that require replanting. Maintenance to correct these issues will be performed in a timely fashion in order to protect the integrity of the cleanup action. Annual trail maintenance will consist of blowing the organics off the trails and brush cutting along the trail edges. A formal maintenance plan and schedule will be provided in the Compliance Monitoring and Institutional Controls Plan developed for the site under the Agreed Order.

2.2 Health and Safety During Construction

All project construction workers who enter the work site, handle contaminated materials, and the Site Safety and Health Officer all must have current Hazardous Waste Operations and Emergency Response (HAZWOPER) Training Certification. Contractors shall be required to plan, implement, and maintain a site-specific health and safety program that complies with all applicable state and federal health and safety regulations. Compliance will be confirmed through submission of health and safety documentation such as worker HAZWOPER training certificates and a written Site Specific Health and Safety Plan.

3. REFERENCES

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Figures



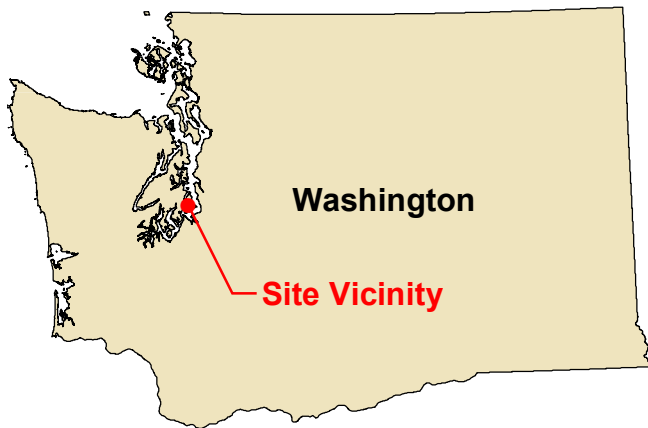
Figure 1. Vicinity and Location Map

Figure 2. Cleanup Unit and Vicinity Features

Figure 3. Decision Units and Monitoring Well Locations

Figure 4. Remedial Alternative 5

Figure 5. Summary of Cleanup Work Performed to Date



Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community



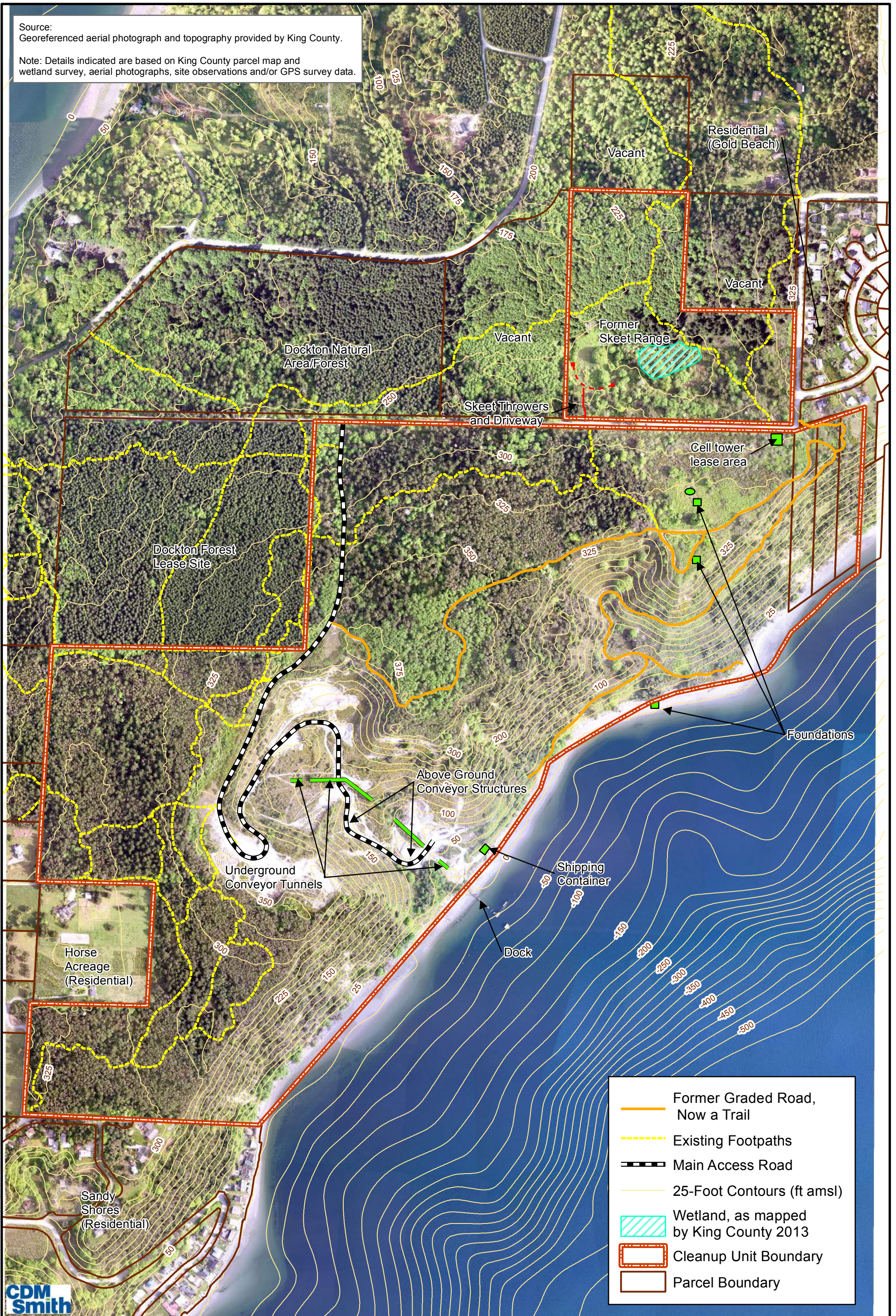
Parametrix








**FIGURE 1
VICINITY AND
LOCATION MAP
Maury Island Open
Space Cleanup Unit
EDR**

Document Path: \\US\PCO\Projects\Clients\1521_KlarCo\1521_KlarCo\1521_Maury_Cleanup_Action_Plan\DCAP_EI\Figure_01_VicinityAndLocation_6-29-17.mxd

Source:
Georeferenced aerial photograph and topography provided by King County.

Note: Details indicated are based on King County parcel map and wetland survey, aerial photographs, site observations and/or GPS survey data.



-  Former Graded Road, Now a Trail
-  Existing Footpaths
-  Main Access Road
-  25-Foot Contours (ft amsl)
-  Wetland, as mapped by King County 2013
-  Cleanup Unit Boundary
-  Parcel Boundary



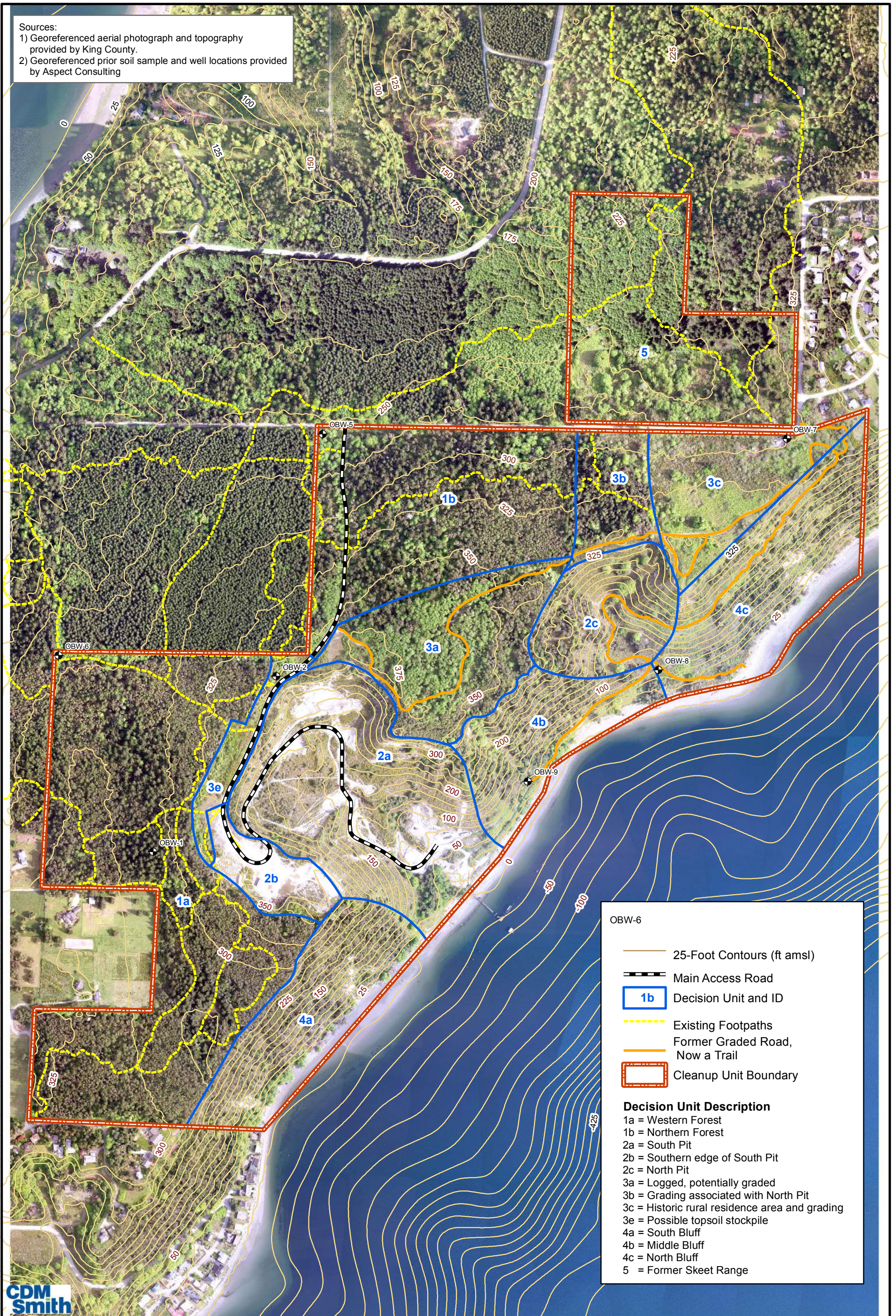
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0 250 500 1,000 Feet

FIGURE 2
CLEANUP UNIT AND VICINITY FEATURES
Maury Island Open Space Cleanup Unit EDR

Sources:
 1) Georeferenced aerial photograph and topography provided by King County.
 2) Georeferenced prior soil sample and well locations provided by Aspect Consulting



OBW-6

- 25-Foot Contours (ft amsl)
- Main Access Road
- Decision Unit and ID
- Existing Footpaths
- Former Graded Road, Now a Trail
- Cleanup Unit Boundary

Decision Unit Description

- 1a = Western Forest
- 1b = Northern Forest
- 2a = South Pit
- 2b = Southern edge of South Pit
- 2c = North Pit
- 3a = Logged, potentially graded
- 3b = Grading associated with North Pit
- 3c = Historic rural residence area and grading
- 3e = Possible topsoil stockpile
- 4a = South Bluff
- 4b = Middle Bluff
- 4c = North Bluff
- 5 = Former Skeet Range

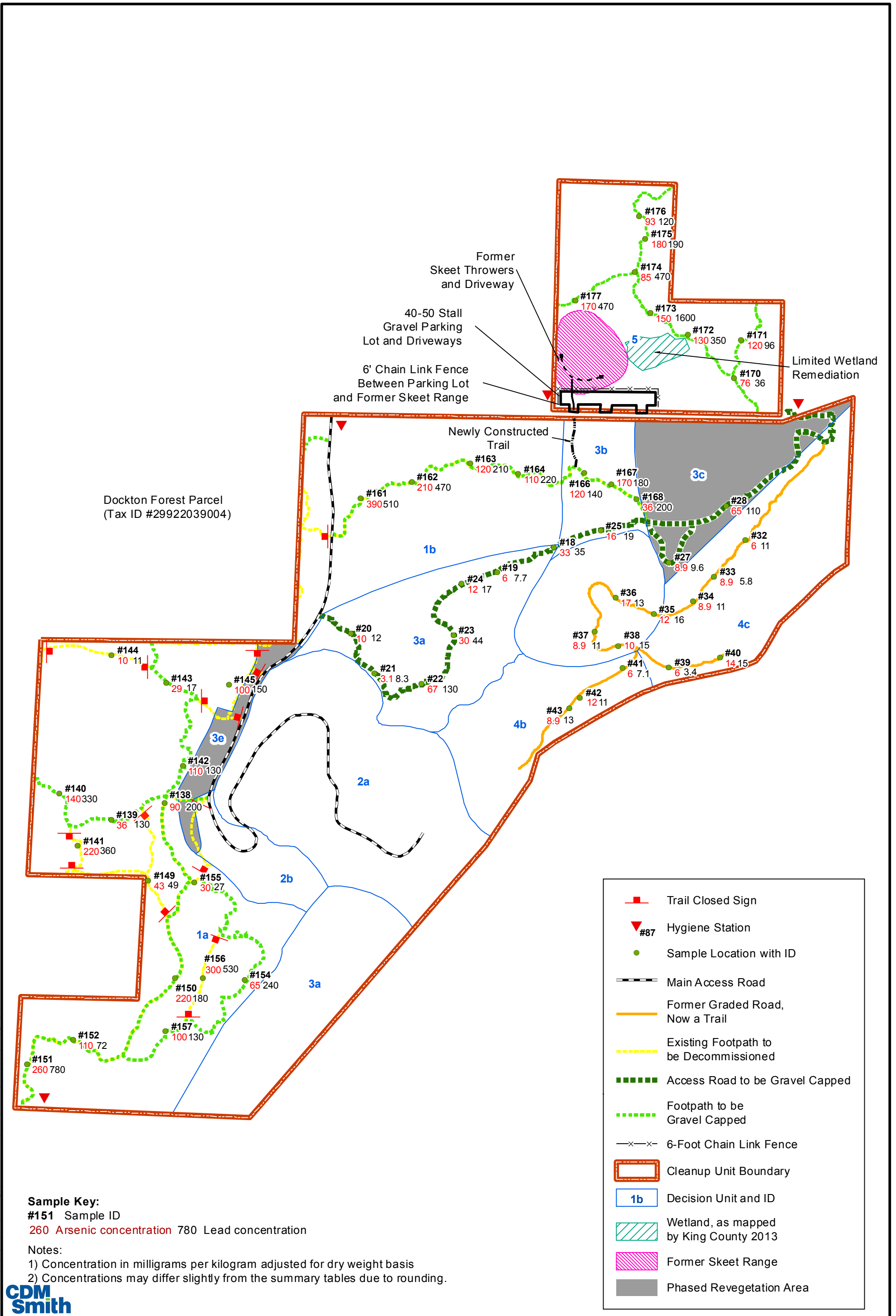


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0 250 500 1,000 Feet

FIGURE 3
DECISION UNITS
AND MONITORING
WELL LOCATIONS
 Maury Island Open
 Space Cleanup Unit
 EDR



CDM Smith

Parametrix

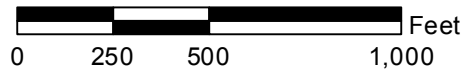


FIGURE 4
CLEANUP ALTERNATIVE SELECTED
DURING THE RIFS (ALTERNATIVE 5)
 Maury Island Open
 Space Cleanup Unit
 EDR

Plotter: Jun 26, 2020 - 4:15pm
 O:\env\200 - 4:15pm
 U:\PSO\Projects\Client\1521-499\CA_1521-1521-175_Maury_Cleanup\ActionPlan\989\cs\CA00\DWG\Trail\PS152175-02-02-C7.dwg Layout Name: FIG 5



WETLAND

REVEGETATION AREA TO BE COMPLETED IN 2020/2021 AS PART OF PHASE 01

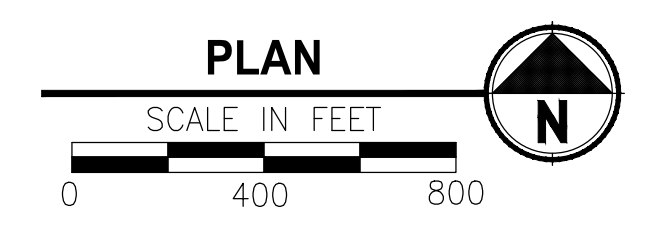
REVEGETATION AREA COMPLETED IN 2016/2017 AS INTERIM ACTION

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- TRAIL
- GRAVEL ROAD
- ACCESS ROAD
- CAPPED TRAILS AND GRAVEL ACCESS ROAD

PARKING LOT TO BE CONSTRUCTED IN 2020/2021 AS PHASE 01 - PARKING AREA (SEE ATTACHED PLANS)

RED HIGHLIGHTED TRAILS AND GRAVEL ROAD CAPPED IN 2019/2020 AS PHASE 01 - TRAILS (SEE ATTACHED RECORD DRAWINGS)



811

KNOW WHAT'S BELOW.
CALL 2 BUSINESS DAYS
BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

Maury Island Natural Area			PROJECT MANAGER: D. DINKUHN				DESIGN TEAM	
PROJECT #	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A	
ISSUED	D. DINKUHN	05/09/2019	①			STRUCT. ENG.	N/A	
APPROVED			②			CIVIL ENG.	D.DINKUHN	
REVIEWED	M. YAND	05/09/2019	③			LAND. ARCH.	N/A	
DRAWN	A. MISIURAK	05/09/2019	④					

King County
 Department of Natural Resources and Parks
 Parks and Recreation Division
 Capital Projects Section
 201 S. Jackson St., Suite 700, Seattle, WA 98104
Christie True, Director

King County
 Maury Island Open Space Cleanup Unit EDR
 7911 SW 260th Street
 Maury Island, WA 98070

SUMMARY OF CLEANUP WORK TO DATE (JUNE 2020)

SHEET
1
OF
1
SHEETS

FIG 5

Appendix A
Record Drawings
Interim Action (2017)
Phase 1A – Trail Capping (2020)



VICINITY MAP



KING COUNTY MAURY ISLAND OPEN SPACE REMEDiation

OWNER: KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS

PARKS AND RECREATION DIVISION - CAPITAL PROJECTS SECTION
201 SOUTH JACKSON STREET, SUITE 700, SEATTLE, WA 98104-3855
CONTACT: LINDSEY MILLER
PH: 206-477-3549 EMAIL: LINDSEY.MILLER@KINGCOUNTY.GOV

SURVEYOR: COMPANY NAME

NA

ARCHITECT/ENGINEER/LANDSCAPE ARCHITECT: PARAMETRIX

PARAMETRIX
CONTACT: DAVID DINKUHN, PE
PH: 360-850-5319 EMAIL: DDINKUHN@PARAMETRIX.COM

PROJECT DATA

PROJECT ADDRESS:

7911 SW 260th Street, Maury Island, WA 98070

TAX PARCEL NUMBER:

282203-9023

LEGAL DESCRIPTION

NW QTR NW QTR STR 28-22-03; EXC NE QTR THEREOF; & EXC PORTION THEREOF LYING WITHIN SW 260TH ST & 79TH AVE SW; TGW GOVT LOT 4 IN NW QTR STR 28-22-03, EXC PORTION THEREOF LYING WITHIN SW 260TH ST; TGW SE QTR NE QTR STR 29-22-03; EXC PORTION THEREOF LYING WITHIN SW 260TH ST; TGW GOVT LOT 4 IN SE QTR STR 29-22-03; TGW NW QTR SE QTR STR 29-22-03; TGW GOVT LOT 4 IN SE QTR STR 29-22-03; TGW GOVT LOT 5 IN SE QTR STR 29-22-03; EXC W 672 2/7 FT OF N 700 FT THEREOF; TGW 2ND CLASS TIDELANDS ADJOINING GOVT LOTS 3 & 4 OF SECTION 28 AND GOVT LOTS 4 & 5 OF SECTION 29 ALL IN TWP 22 RANGE 3 EXTENDING TO LINE OF EXTREME LOW TIDE

PROJECT DESCRIPTION

THIS PROJECT PROVIDES FOR THE IMPROVEMENT OF THE MAURY ISLAND OPEN SPACE PROPERTY LOCATED AT APPROXIMATELY 7911 SW 260TH STREET IN VASHON ISLAND IN KING COUNTY. THE PROJECT INCLUDES CLEARING AND GRUBBING, DEER FENCE, LANDSCAPING, AND OTHER WORK, ALL IN ACCORDANCE WITH THE ATTACHED PLANS, THESE SPECIAL PROVISIONS, THE STANDARD SPECIFICATIONS, AND THE APWA/WSDOT STANDARD PLANS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.

ZONING

EXISTING: PARK, PUBLIC
EXISTING USE: PARK, PUBLIC

PROPOSED USE: SAME AS EXISTING

EXISTING SITE STRUCTURES

NONE

NEW / ALTERED STRUCTURES

NONE

ALTERED SITE AREAS

NEW LOT COVERAGE: N/A
NEW IMPERVIOUS SURFACE AREA: N/A
ALTERED IMPERVIOUS SURFACE AREA: N/A
OFF STREET PARKING: N/A
RECYCLABLE STORAGE: N/A

APPLICABLE CODES AND DESIGN CRITERIA

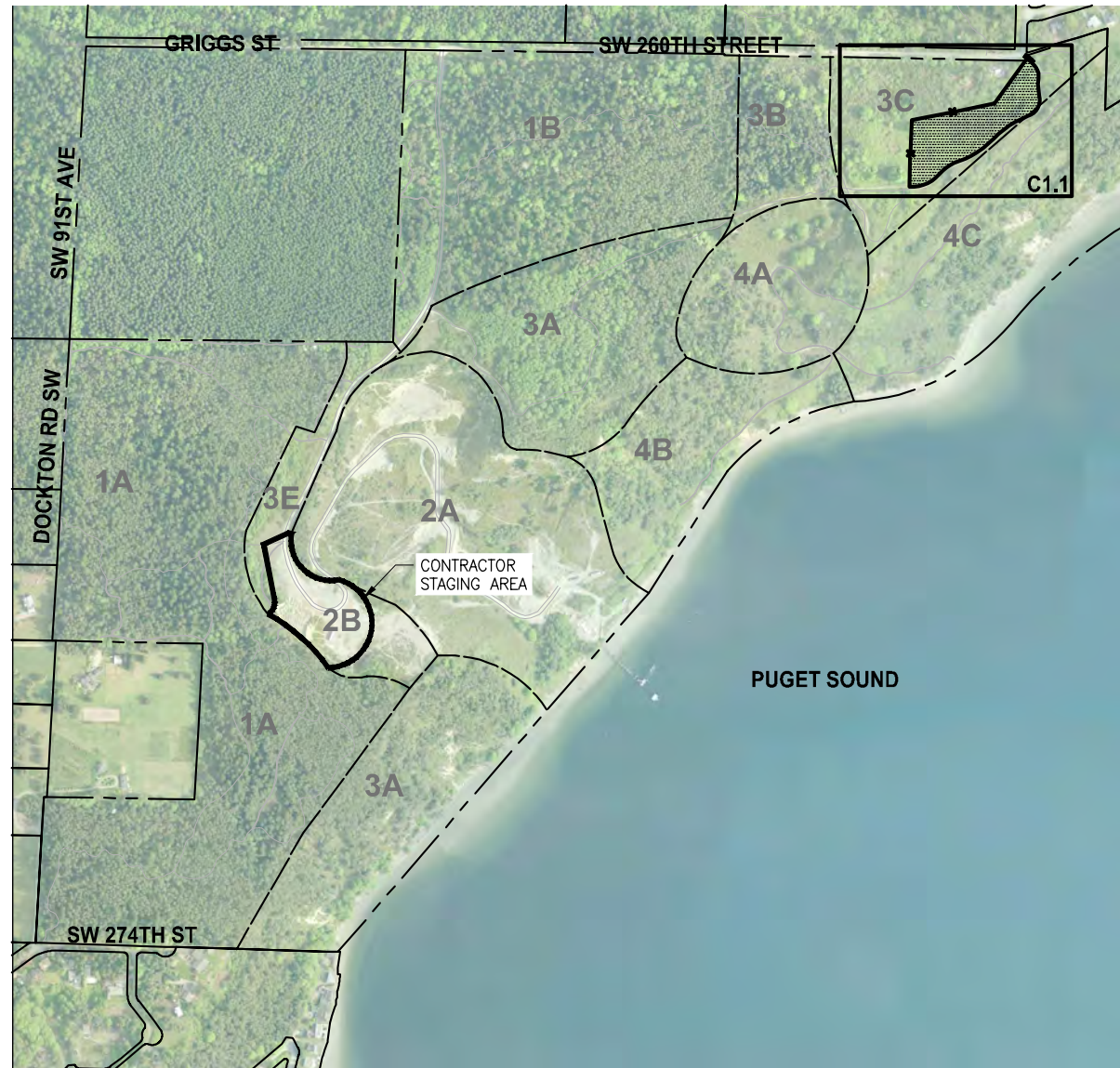
APWA/WSDOT STANDARD SPECIFICATIONS AND STANDARD PLANS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (CURRENT EDITION)

BID SET



KNOW WHAT'S BELOW.
CALL 2 BUSINESS DAYS
BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

Maury Island Natural Area			PROJECT MANAGER: D. Dinkuhn				DESIGN TEAM			King County Department of Natural Resources and Parks Parks and Recreation Division Capital Projects Section 201 S. Jackson St., Suite 700, Seattle, WA 98104 <i>Christie True, Director</i>	King County Maury Island Open Space Remediation 7911 SW 260th Street Maury Island, WA 98070 COVER SHEET	SHEET 1 OF 6 SHEETS G0.1
PROJECT #	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A					
ISSUED	D. Dinkuhn	8/11/2016	①			STRUCT. ENG.	N/A					
APPROVED			②			CIVIL ENG.	D. Dinkuhn					
REVIEWED	M. Yand	8/11/2016	③			LAND. ARCH.	N/A					
DRAWN	J. Ceralde	8/11/2016	④									



SHEET INDEX		
DWG NO.	SHT NO.	SHEET TITLE
GENERAL		
1	G0.1	COVER SHEET
2	C1.0	SHEET INDEX, KEY MAP, NOTES
3	C1.1	SITE PLAN
4	C2.1	DETAILS
5	C2.2	DETAILS
6	C3.0	TEMP TRAFFIC CONTROL PLAN

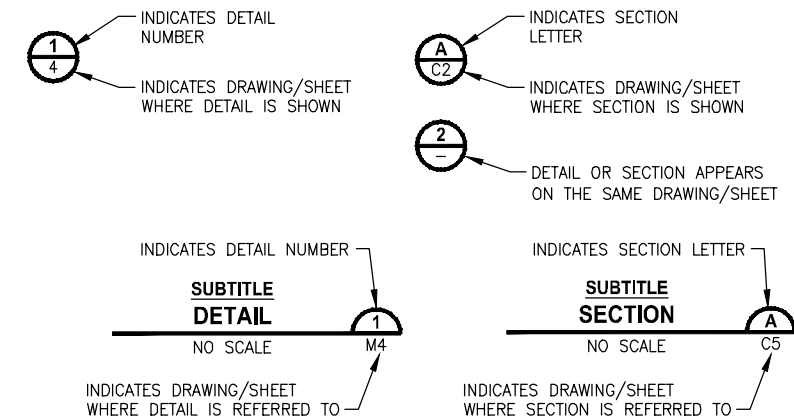
LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- DECISION UNIT BOUNDARY
- 4C** DECISION UNIT ID
- - - - - MAJOR CONTOUR
- MINOR CONTOUR
- DEER FENCE, SEE DETAIL (1/C2.1)
- STRAW WATTLE
- [Hatched Box] REVEGETATION AREA, (LIMITS WILL STAKED IN THE FIELD BY THE ENGINEER) SEE DETAIL (1/C2.2)
- [Stippled Box] STABILIZED CONSTRUCTION ENTRANCE

SOURCE:

1. ELEVATION CONTOURS FROM KING COUNTY GIS.
2. PROPERTY BOUNDARIES FROM KING COUNTY GIS.

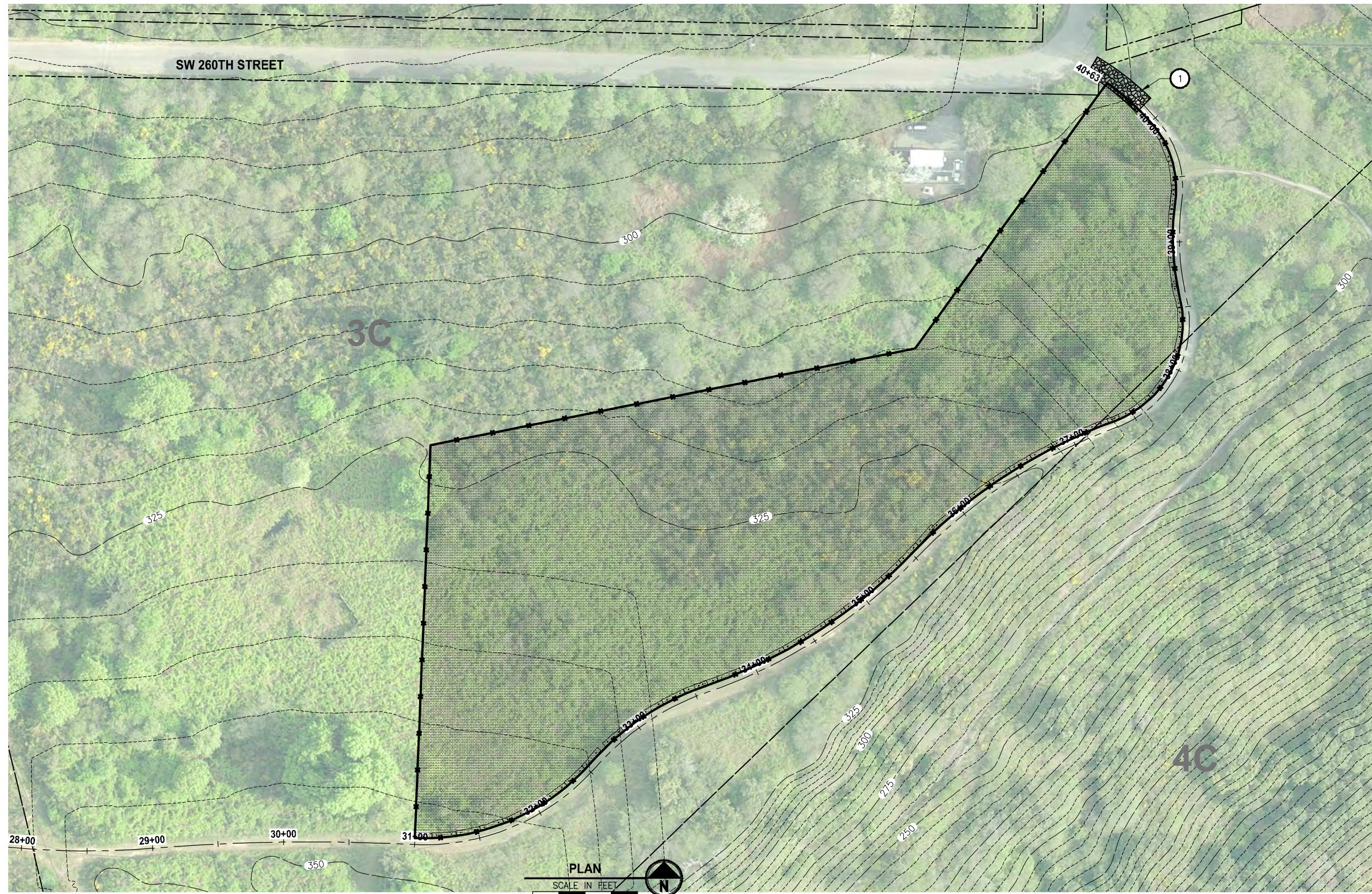
DETAIL AND SECTION DESIGNATION



BID SET

811
 KNOW WHAT'S BELOW.
 CALL 2 BUSINESS DAYS
 BEFORE YOU DIG.
 (UTILITY LOCATIONS ARE APPROX.)

Maury Island Natural Area		PROJECT MANAGER: D. Dinkuhn				DESIGN TEAM			King County Department of Natural Resources and Parks Parks and Recreation Division Capital Projects Section 201 S. Jackson St., Suite 700, Seattle, WA 98104 <i>Christie True, Director</i>	King County Maury Island Open Space Remediation 7911 SW 260th Street Maury Island, WA 98070	SHEET
PROJECT #	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A				2
ISSUED	D. Dinkuhn	8/11/2016	①			STRUCT. ENG.	N/A				OF
APPROVED			②			CIVIL ENG.	D. Dinkuhn				6
REVIEWED	M. Yand	8/11/2016	③			LAND. ARCH.	N/A				SHEETS
DRAWN	J. Ceralde	8/11/2016	④								
SHEET INDEX, KEY MAP, NOTES										C1.0	



LEGEND

	APPROXIMATE PROPERTY BOUNDARY
	DECISION UNIT BOUNDARY
4C	DECISION UNIT ID
	MAJOR CONTOUR
	MINOR CONTOUR
	DEER FENCE, SEE DETAIL 1
	STRAW WATTLE
	REVEGETATION AREA, (LIMITS WILL STAKED IN THE FIELD BY THE ENGINEER) SEE DETAIL 1
	STABILIZED CONSTRUCTION ENTRANCE

- SOURCE:**
- ELEVATION CONTOURS FROM KING COUNTY GIS.
 - PROPERTY BOUNDARIES FROM KING COUNTY GIS.

- NOTES:**
- HERBICIDE TREATMENT FOR INVASIVES SHALL NOT BE ALLOWED WITHOUT WRITTEN PERMISSION FROM KING COUNTY. SEE SPECIAL PROVISIONS.

- KEY NOTES:**
- 1 50'x15' STABILIZED CONSTRUCTION ENTRANCE PER WSDOT STD PLAN I-80.10-02. REMOVE AT COMPLETION OF WORK.



BID SET

811

KNOW WHAT'S BELOW.
CALL 2 BUSINESS DAYS
BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

Maury Island Natural Area		PROJECT MANAGER: D. Dinkuhn				DESIGN TEAM	
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REVIEWED	M. Yand	8/11/2016	③			LAND. ARCH.	N/A
DRAWN	J. Ceralde	8/11/2016	④				



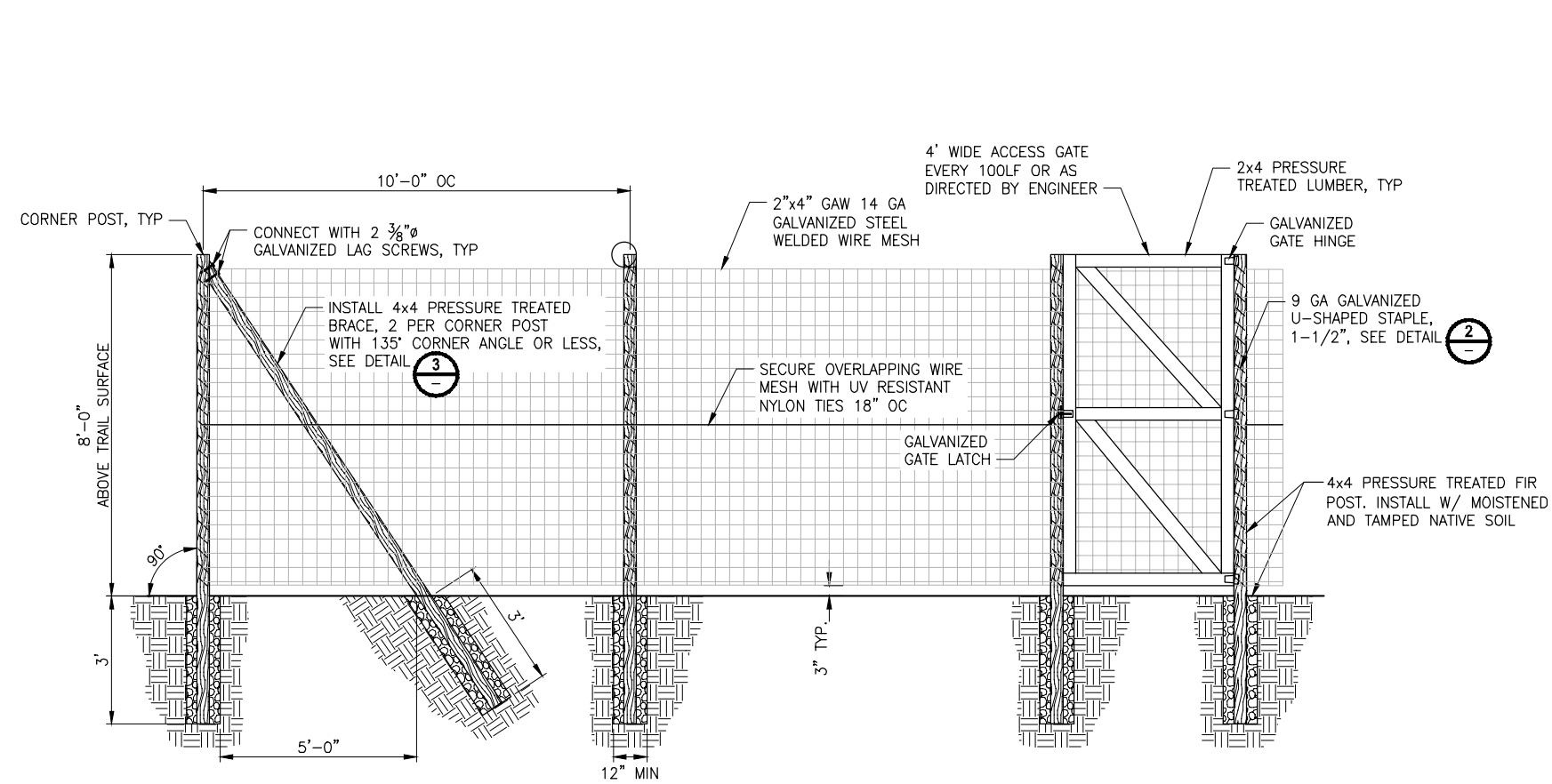
King County
 Department of Natural Resources and Parks
 Parks and Recreation Division
 Capital Projects Section
 201 S. Jackson St., Suite 700, Seattle, WA 98104
 Christie True, Director

King County
 Maury Island Open Space Remediation
 7911 SW 260th Street
 Maury Island, WA 98070

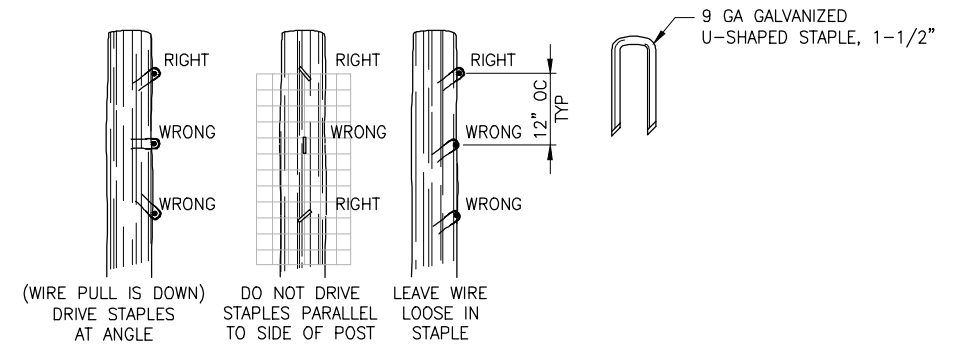
SITE PLAN

SHEET
 3
 OF
 6
 SHEETS

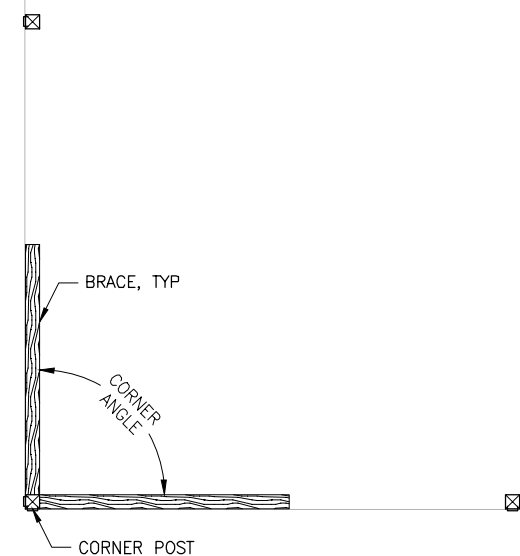
C1.1



**DEER FENCE
DETAIL**
NOT TO SCALE



**9 GA STAPLE ATTACHMENT
DETAIL**
NO SCALE



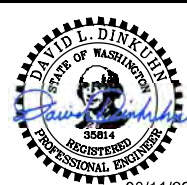
**CORNER POST
DETAIL**
NO SCALE



KNOW WHAT'S BELOW.
CALL 2 BUSINESS DAYS
BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

BID SET

Maury Island Natural Area			PROJECT MANAGER: D. Dinkuhn				DESIGN TEAM	
PROJECT #	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A	
ISSUED	D. Dinkuhn	8/11/2016	①			STRUCT. ENG.	N/A	
APPROVED			②			CIVIL ENG.	D. Dinkuhn	
REVIEWED	M. Yand	8/11/2016	③			LAND. ARCH.	N/A	
DRAWN	J. Ceralde	8/11/2016	④					



08/11/2016

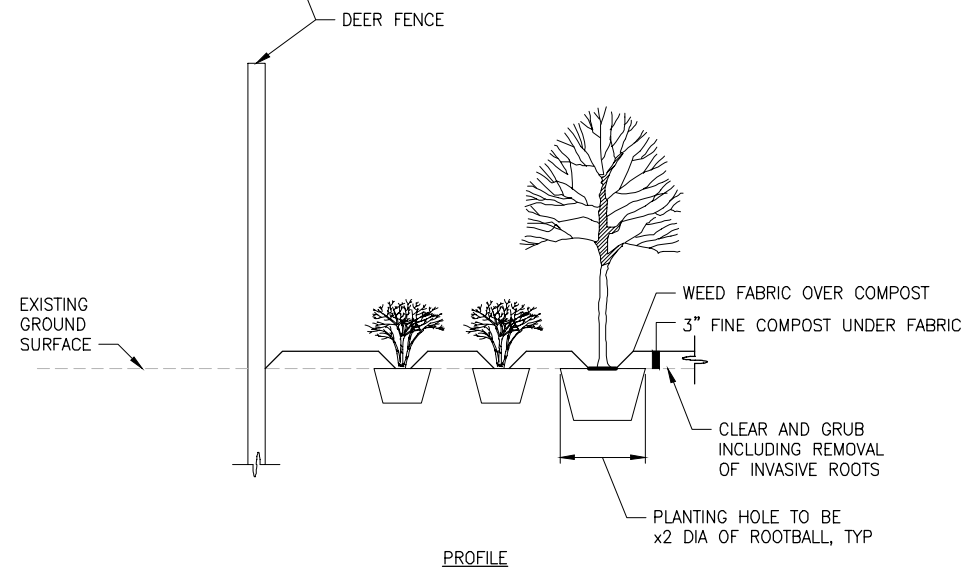
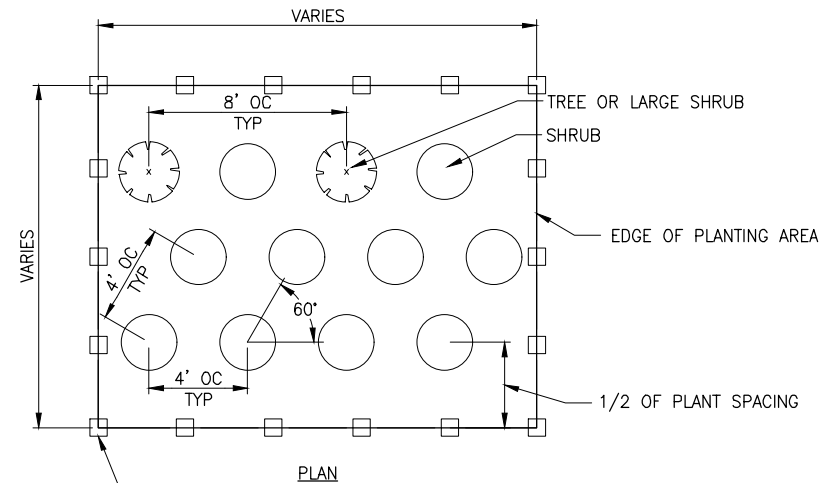
King County
Department of Natural Resources and Parks
Parks and Recreation Division
Capital Projects Section
201 S. Jackson St., Suite 700, Seattle, WA 98104
Christie True, Director

King County
Maury Island Open Space Remediation
7911 SW 260th Street
Maury Island, WA 98070
DETAILS

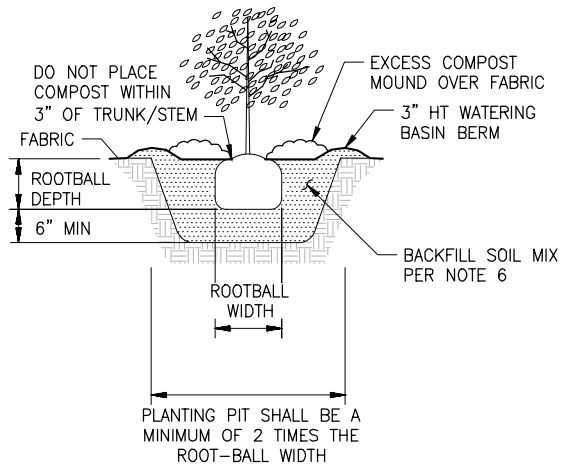
SHEET
4
OF
6
SHEETS
C2.1

Revised

04/14/2017 12:10:24 PM



**PHASED REVEGETATION
DETAIL**
NO SCALE



**PLANTING
DETAIL**
NO SCALE

PLANTING SCHEDULE:

SCIENTIFIC NAME	QTY	COMMON NAME	MIN SIZE	CONDITION	NOTES
CONIFER TREES					
PINUS MONTICOLA	300	WESTERN WHITE PINE	18" TALL	CONT	SPACE PLANTS 8' OC
Picea Sitchensis	300	Sitka Spruce	18" TALL	CONT	
PSEUDOTSUGA MENZIESII	900	DOUGLAS-FIR	18" TALL	CONT	
THUJA PLICATA	200	WESTERN RED CEDAR	18" TALL	CONT	PLANT IN PARTIAL SHADE ONLY
DECIDUOUS TREES					
ACER MACROPHYLLUM	200	BIG LEAF MAPLE	18" TALL	CONT	SPACE PLANTS 8' OC
PRUNUS EMARGINATA	200	BITTER CHERRY	18" TALL	CONT	
QUERCUS GARRYANA	200	GARRY OAK	18" TALL	CONT	
LARGE EVERGREEN SHRUBS					
MAHONIA AQUIFOLIUM	1100	TALL OREGON GRAPE	1 GAL	CONT	SPACE PLANTS 8' OC
VACCINIUM OVATUM	200	EVERGREEN HUCKLEBERRY	1 GAL	CONT	PLANT IN PARTIAL SHADE ONLY
LARGE DECIDUOUS SHRUBS					
HOLODISCUS DISCOLOR	675	OCEANSPRAY	1 GAL	CONT	SPACE PLANTS 8' OC
OEMLERIA CERASIFORMIS	200	INDIAN PLUM	1 GAL	CONT	PLANT IN PARTIAL SHADE ONLY
INFILL SHRUB MIX					
ROSA PISOCARPA	1500	PEAFRUIT ROSE	1 GAL	CONT	SPACE PLANTS 4' OC
ROSA NUTKANA	1500	NOOTKA ROSE	1 GAL	CONT	
SYMPHORICARPOS ALBUS	1000	COMMON SNOWBERRY	1 GAL	CONT	PLANT IN PARTIAL SHADE ONLY

PLANTING NOTES:

- PLANT SHRUBS IN SINGLE SPECIES GROUPS OF 7 TO 12 PLANTS EACH PLANT TREES IN SINGLE SPECIES GROUPS OF 1 TO 5 PLANTS EACH.
- LAYER MATERIAL:
NATIVE GROUND
FINE COMPOST
WEED FABRIC OVER COMPOST
- INSTALL PLANTS THROUGH WEED FABRIC BY CUTTING 'X' IN FABRIC, REMOVING SOIL / COMPOST THROUGH HOLE, PLACING PLANT IN HOLE, AND BACKFILLING WITH SOIL/COMPOST. MOUND EXCESS COMPOST AROUND PLANT BASE ON TOP OF FABRIC.
- PLANT MATERIALS SHALL MEET STANDARDS SET FORTH IN THE LATEST EDITION OF THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARD (ANSI Z60.1) AND WASHINGTON STATE STANDARDS FOR NURSERY STOCK ORDER NO. 1627. ALL PLANT MATERIALS SHALL HAVE SUFFICIENT ROOT DEVELOPMENT TO ASSURE SURVIVAL AND HEALTHY GROWTH. CONTAINER GROWN PLANT MATERIALS ARE REQUIRED TO HAVE SUFFICIENT ROOT GROWTH TO HOLD THE SOIL INTACT WHEN REMOVED FROM THE CONTAINER, BUT SHALL NOT BE ROOT BOUND.

PLANTING NOTES:

- ALL PLANT MATERIALS AND PLANT LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ALL PLANTS SHALL BE THOROUGHLY WATERED IMMEDIATELY AFTER PLANTING.
- PLANT LIST QUANTITIES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR INSTALLING PLANTINGS PER THE LANDSCAPE PLAN.
- ALL PLANT QUANTITIES TO BE DETERMINED BY REQUIRED SPACING.
- LANDSCAPE MATERIALS & QUANTITIES WILL BE FIELD ADJUSTED TO FIT ACTUAL CONDITIONS IF NECESSARY. COORDINATE LANDSCAPE CONSTRUCTION AND REVIEW WITH ENGINEER.
- BACKFILL SOIL MIX SHALL CONSIST OF A MIXTURE OF 1/3 COMPOST AND 2/3 SUITABLE NATIVE SOIL.

IRRIGATION NOTES:

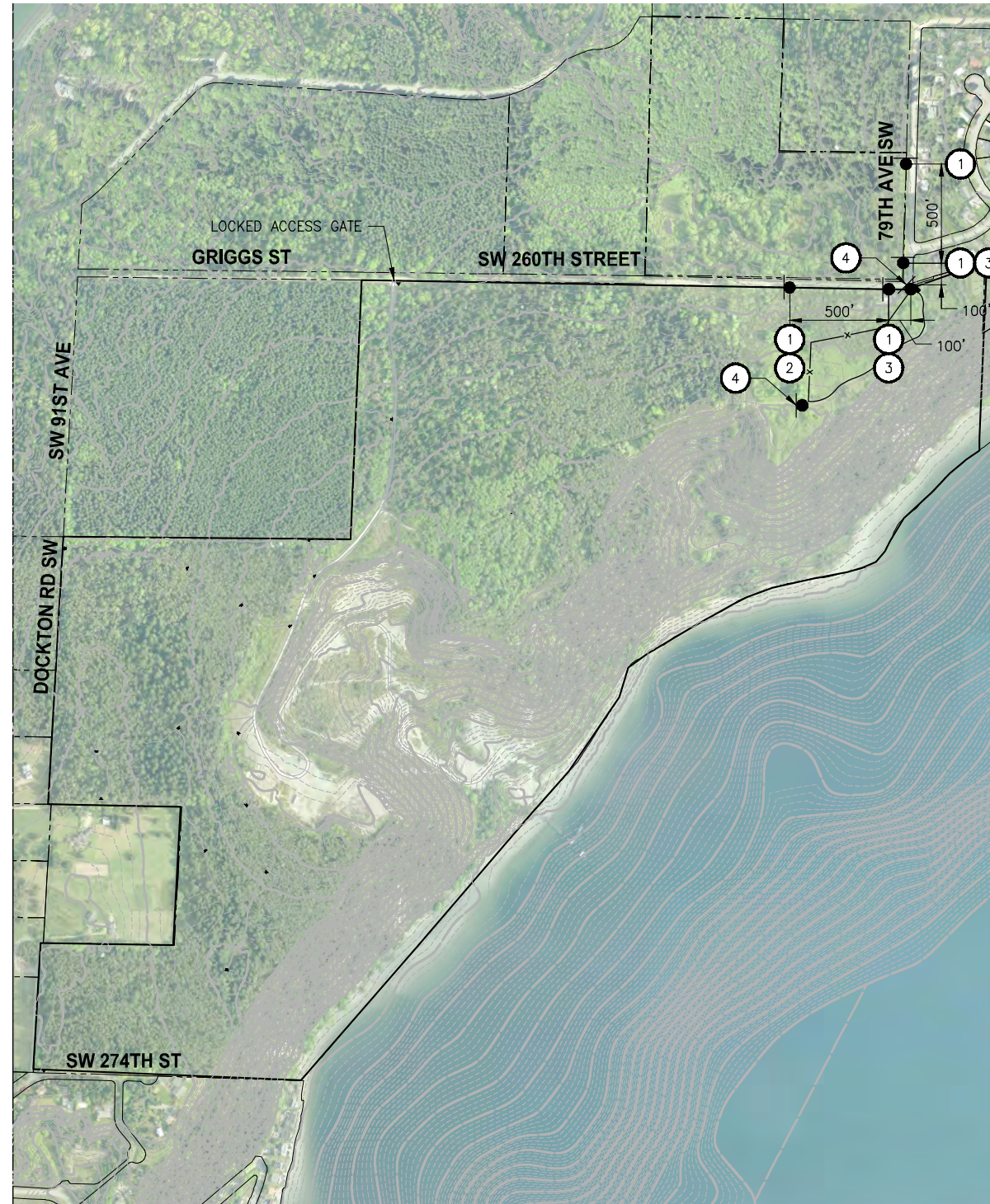
- ALL VEGETATION SHALL BE WATERED BY CONTRACTOR FOR FOUR MONTHS AFTER SUBSTANTIAL COMPLETION OF THE PROJECT.



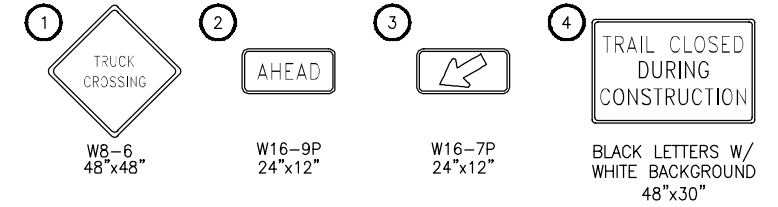
KNOW WHAT'S BELOW.
CALL 2 BUSINESS DAYS
BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

BID SET

Maury Island Natural Area			PROJECT MANAGER: D. Dinkuhn			DESIGN TEAM				King County Department of Natural Resources and Parks Parks and Recreation Division Capital Projects Section 201 S. Jackson St., Suite 700, Seattle, WA 98104 Christie True, Director	King County Maury Island Open Space Remediation 7911 SW 260th Street Maury Island, WA 98070	SHEET 5 OF 6 SHEETS C2.2
PROJECT #	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A					
ISSUED	D. Dinkuhn	8/11/2016	①			STRUCT. ENG.	N/A					
APPROVED			②			CIVIL ENG.	D. Dinkuhn					
REVIEWED	M. Yand	8/11/2016	③			LAND. ARCH.	N/A					
DRAWN	J. Ceralde	8/11/2016	④									
DETAILS												



SIGN KEY:



SYMBOL LEGEND:



NOTES:

1. TRAIL SHALL BE CLOSED DURING CONSTRUCTION WORKING HOURS WHILE CONSTRUCTION EQUIPMENT IS PRESENT.
2. ACCESS GATE SHALL REMAIN LOCKED AT ALL TIMES EXCEPT FOR EQUIPMENT ENTRY/EXIT.



KNOW WHAT'S BELOW.
CALL 2 BUSINESS DAYS
BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

BID SET

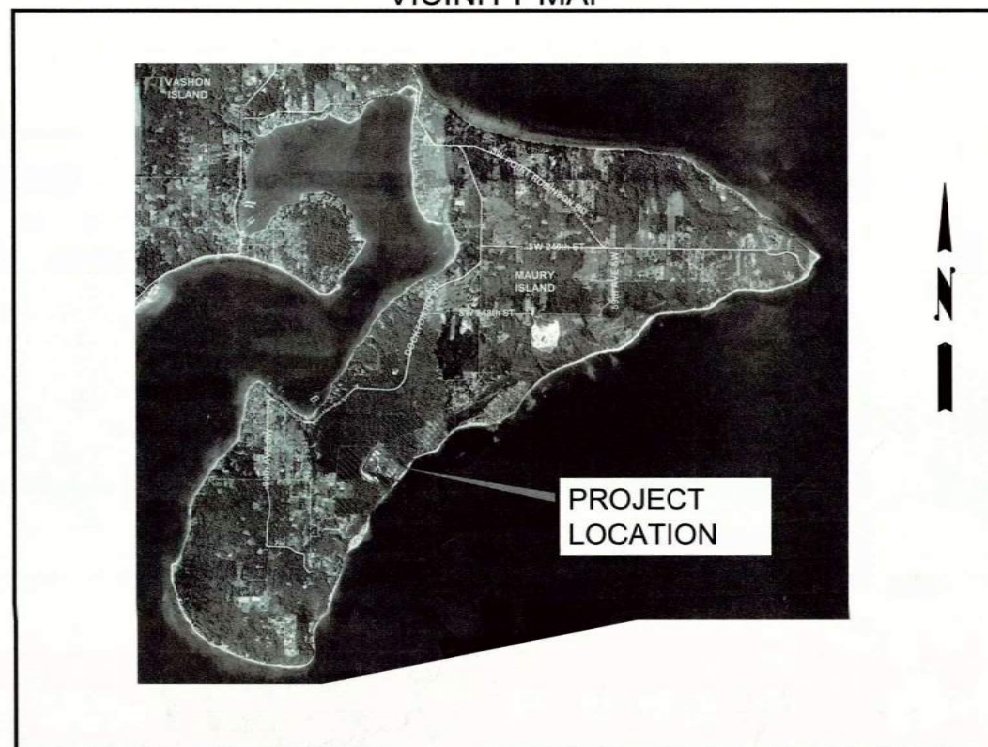
Maury Island Natural Area			PROJECT MANAGER: D. Dinkuhn				DESIGN TEAM			King County Department of Natural Resources and Parks Parks and Recreation Division Capital Projects Section 201 S. Jackson St., Suite 700, Seattle, WA 98104 <i>Christie True, Director</i>	King County Maury Island Open Space Remediation 7911 SW 260th Street Maury Island, WA 98070	SHEET
PROJECT #	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A	6				
ISSUED	D. Dinkuhn	8/11/2016	①			STRUCT. ENG.	N/A	OF				
APPROVED			②			CIVIL ENG.	D. Dinkuhn	6				
REVIEWED	M. Yand	8/11/2016	③			LAND. ARCH.	N/A	SHEETS				
DRAWN	J. Ceralde	8/11/2016	④					C3.0				
TEMP TRAFFIC CONTROL PLAN												



Project: Maury Island Open Space Remediation

Plant Name/Size	Specified	Quantity Delivered	Delivered to King County Unplanted	Planted During 1st Effort	Warranty Planting 4/13/2017
Picea Sitchensis 'Sitka Spruce' (#2 Cont/18" HT)	300	310	109	201	0
Pseudotsuga Menziesii/Douglas Fir (#2 Cont/18" HT)	900	930	541	389	0
Thuja Plicata/Western Red Cedar (#2 Cont/18" HT)	200	204	35	169	10
Acer Marcophyllum/Big Leaf Maple (#2 Cont/18" HT)	200	204	44	160	0
Prunus Emarginata/Bitter Cherry (#2 Cont/18" HT)	200	204	138	66	0
Quercus Garryana/Garry Oak (#2 Cont/18" HT)	200	210	84	126	0
Mahonia Aquifolium/Tall Oregon Grape (#1 Cont/12" HT)	1100	1122	0	1122	75
Vaccinium Ovatum/Evergreen Huckleberry (#1 Cont/12" HT)	200	205	0	205	25
Holodiscus Discolor/Oceanspray (#1 Cont/12" HT)	675	688	0	688	0
Oemleria Cerasiformis/Indian Plum (#1 Cont/12" HT)	200	200	117	83	0
Rosa Pisocarpa/Peafruit Rose (#1 Cont/12" HT)	1500	1530	0	1530	0
Rosa Nutkana/Nootka Rose (#1 Cont/12" HT)	1500	1530	0	1530	0
Symphoricarpos Albus/Common Snowberry (#1 Cont/12" HT)	1000	1020	0	1020	0

VICINITY MAP



KING COUNTY MAURY ISLAND OPEN SPACE REMEDATION - PHASE 01 - TRAILS

OWNER: KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS
 PARKS AND RECREATION DIVISION - CAPITAL PROJECTS SECTION
 201 SOUTH JACKSON STREET, SUITE 700, SEATTLE, WA 98104-3855
 CONTACT: LINDSEY MILLER
 PH: 206-477-3549 EMAIL: LINDSEY.MILLER@KINGCOUNTY.GOV
SURVEYOR: KING COUNTY ROAD SERVICES DIVISION
 KING COUNTY ROAD SERVICES DIVISION - SURVEY UNIT

ARCHITECT/ENGINEER/LANDSCAPE ARCHITECT: PARAMETRIX
 PARAMETRIX
 CONTACT: DAVID DINKUHN
 PH: 360-850-5319 EMAIL: DDINKUHN@PARAMETRIX.COM

PROJECT DATA

PROJECT ADDRESS:
7911 SW 260th Street, Maury Island, WA 98070
TAX PARCEL NUMBER:
282203-9023

LEGAL DESCRIPTION

NW QTR NW QTR STR 28-22-03; EXC NE QTR THEREOF; & EXC PORTION THEREOF LYING WITHIN SW 260TH ST & 79TH AVE SW, TGW GOVT LOT 4 IN NW QTR STR 28-22-03, EXC PORTION THEREOF LYING WITHIN SW 260TH ST; TGW SE QTR NE QTR STR 29-22-03; EXC PORTION THEREOF LYING WITHIN SW 260TH ST; TGW GOVT LOT 4 IN SE QTR STR 29-22-03; TGW NW QTR SE QTR STR 29-22-03; TGW GOVT LOT 4 IN SE QTR STR 29-22-03; TGW GOVT LOT 5 IN SE QTR STR 29-22-03; EXC W 672 2/7 FT OF N 700 FT THEREOF; TGW 2ND CLASS TIDELANDS ADJOINING GOVT LOTS 3 & 4 OF SECTION 28 AND GOVT LOTS 4 & 5 OF SECTION 29 ALL IN TWP 22 RANGE 3 EXTENDING TO LINE OF EXTREME LOW TIDE.

PROJECT DESCRIPTION

THIS PROJECT PROVIDES FOR THE IMPROVEMENT OF THE MAURY ISLAND OPEN SPACE PROPERTY LOCATED AT APPROXIMATELY 7911 SW 260TH STREET IN VASHON ISLAND IN KING COUNTY. THE PROJECT INCLUDES CLEARING AND GRUBBING, CAPPING TRAILS AND ACCESS ROADS WITH GRAVEL, GRAVEL CHECK DAMS, 12-INCH CULVERTS, SIGNS, AND OTHER WORK, ALL IN ACCORDANCE WITH THE ATTACHED PLANS, THESE SPECIAL PROVISIONS, THE STANDARD SPECIFICATIONS, THE KCRDCS, THE APWA/WSDOT STANDARD PLANS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, AND THE USDA FOREST SERVICE STANDARD TRAIL PLANS AND SPECIFICATIONS.

ZONING
 EXISTING: PARK, PUBLIC
 EXISTING USE: PARK, PUBLIC

PROPOSED USE: SAME AS EXISTING

EXISTING SITE STRUCTURES
 NONE

NEW / ALTERED STRUCTURES
 NONE

ALTERED SITE AREAS
 NEW LOT COVERAGE: N/A
 NEW IMPERVIOUS SURFACE AREA: 40,664 SF
 ALTERED IMPERVIOUS SURFACE AREA: NA
 OFF STREET PARKING: N/A
 RECYCLABLE STORAGE: N/A

APPLICABLE CODES AND DESIGN CRITERIA
 APWA/WSDOT STANDARD SPECIFICATIONS AND STANDARD PLANS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (CURRENT EDITION)

USDA FOREST SERVICE STANDARD TRAIL PLANS AND SPECIFICATIONS (CURRENT EDITION)

APPLICABLE CODES AND DESIGN CRITERIA NOTES:

1.) USDA FOREST SERVICE STANDARD TRAIL PLANS AND SPECIFICATIONS SHALL APPLY FOR ALL WORK NOT OTHERWISE SHOWN OR NOTED IN THE PROJECT PLANS AND SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

05/09/2019

BID SET

811
 KNOW WHAT'S BELOW.
 CALL 2 BUSINESS DAYS
 BEFORE YOU DIG
 (UTILITY LOCATIONS ARE APPROX.)

Maury Island Natural Area		PROJECT MANAGER: D. DINKUHN				DESIGN TEAM			
PROJECT #	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A		
ISSUED	D. DINKUHN	05/09/2019	①			STRUCT. ENG.	N/A		
APPROVED			②			CIVIL ENG.	D. DINKUHN		
REVIEWED	M. YAND	05/09/2019	③			LAND. ARCH.	N/A		
DRAWN	A. MISIURAK	05/09/2019	④						



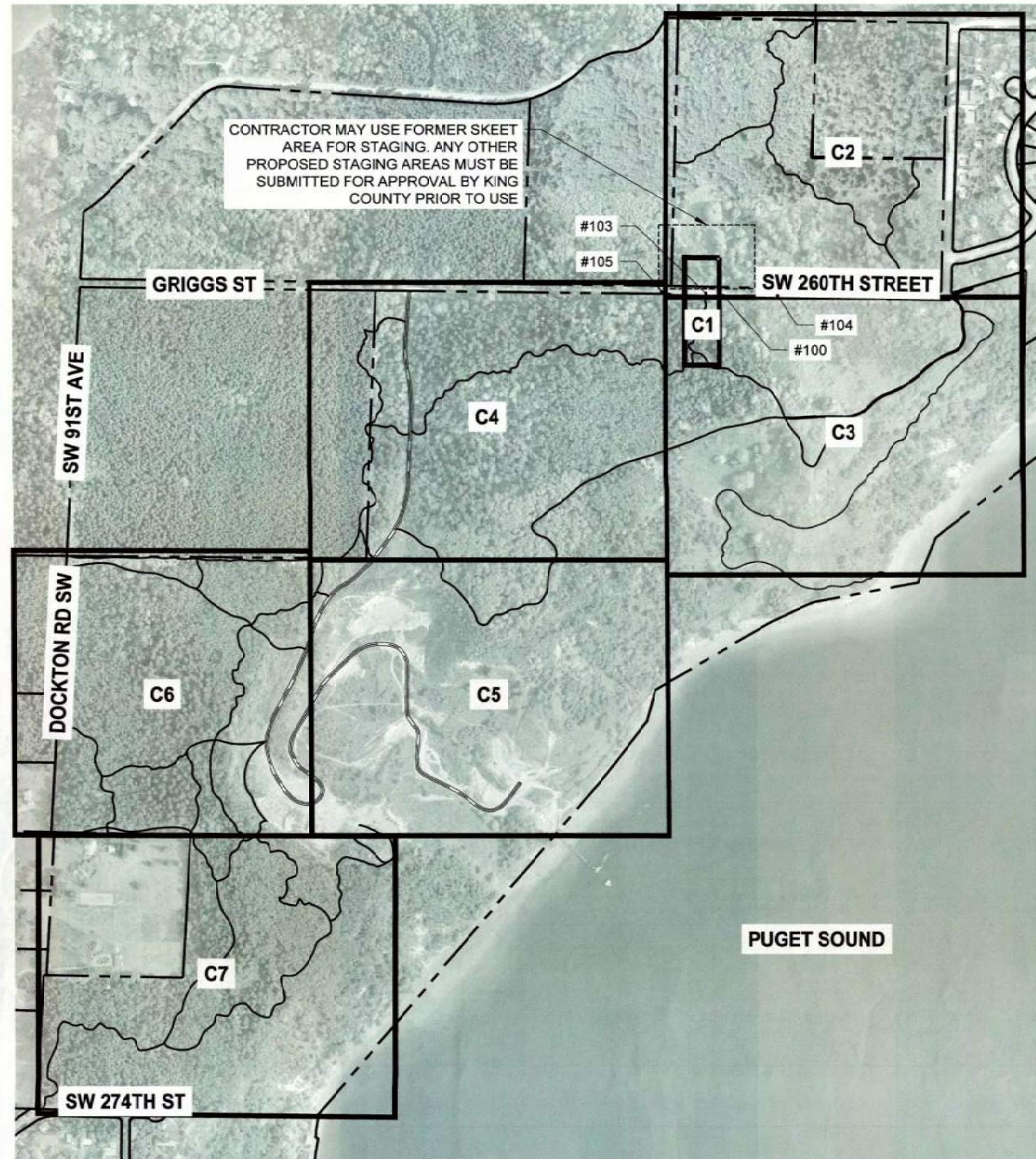
King County
 Department of Natural Resources and Parks
 Parks and Recreation Division
 Capital Projects Section
 201 S. Jackson St., Suite 700, Seattle, WA 98104
 Christie True, Director

King County
 Maury Island Open Space Remediation
 7911 SW 260th Street
 Maury Island, WA 98070

COVER SHEET

SHEET
1
OF
13
SHEETS

G1

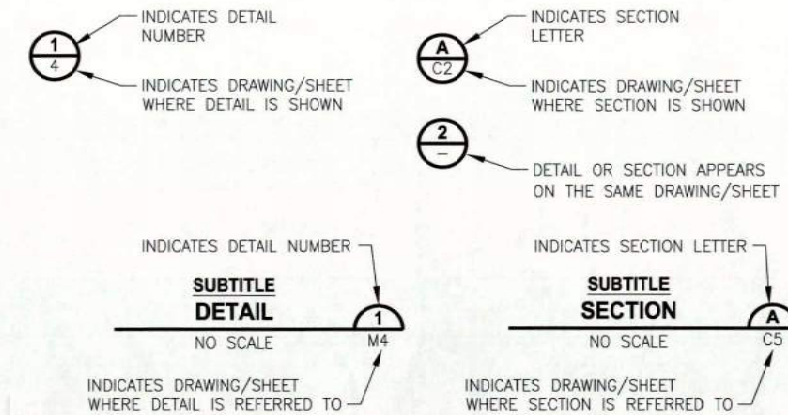


SHEET INDEX		
DWG NO.	SHT NO.	SHEET TITLE
1	G1	COVER SHEET
2	G2	SHEET INDEX, KEY MAP, NOTES
3	C1	CONNECTOR TRAIL PLAN AND PROFILE
4	C2	CAPPING PLAN
5	C3	CAPPING PLAN
6	C4	CAPPING PLAN
7	C5	CAPPING PLAN
8	C6	CAPPING PLAN
9	C7	CAPPING PLAN
10	D1	DETAILS AND SECTIONS
11	D2	DETAILS
12	D3	DETAILS
13	T1	TEMPORARY TRAFFIC CONTROL PLAN

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- TRAIL
- GRAVEL ROAD
- ACCESS ROAD

DETAIL AND SECTION DESIGNATION



SURVEY NOTES

POINT TABLE				
POINT#	ELEVATION	NORTHING	EASTING	DESCRIPTION
100	281.81	139444.48	1242979.28	MAGS
103	282.37	139455.16	1242893.62	MAGS
104	277.14	139457.64	1243242.94	MAGS
105	281.71	139456.86	1242681.16	MAGS

SURVEY NOTES

- ELEVATION DATUM = NAVD 88
 - HORIZONTAL DATUM = NAD 83/91
- WASHINGTON STATE PLANE,
NORTH ZONE

SURVEY LEGEND

MAGS = MAGNAIL

SOURCE:

- ELEVATION CONTOURS FROM KING COUNTY GIS, EXCEPT FOR SHEET C1.
- PROPERTY BOUNDARIES FROM KING COUNTY GIS, EXCEPT FOR SHEET C1.

05/09/2019

BID SET



KNOW WHAT'S BELOW.
CALL 2 BUSINESS DAYS
BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

Maury Island Natural Area		PROJECT MANAGER: D. DINKUHN				DESIGN TEAM	
PROJECT #	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A
ISSUED	D. DINKUHN	05/09/2019	①			STRUCT. ENG.	N/A
APPROVED			②			CIVIL ENG.	D. DINKUHN
REVIEWED	M. YAND	05/09/2019	③			LAND. ARCH.	N/A
DRAWN	A. MISIURAK	05/09/2019	④				



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Christie True, Director

King County
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Maury Island, WA 98070
SHEET INDEX, KEY MAP, NOTES

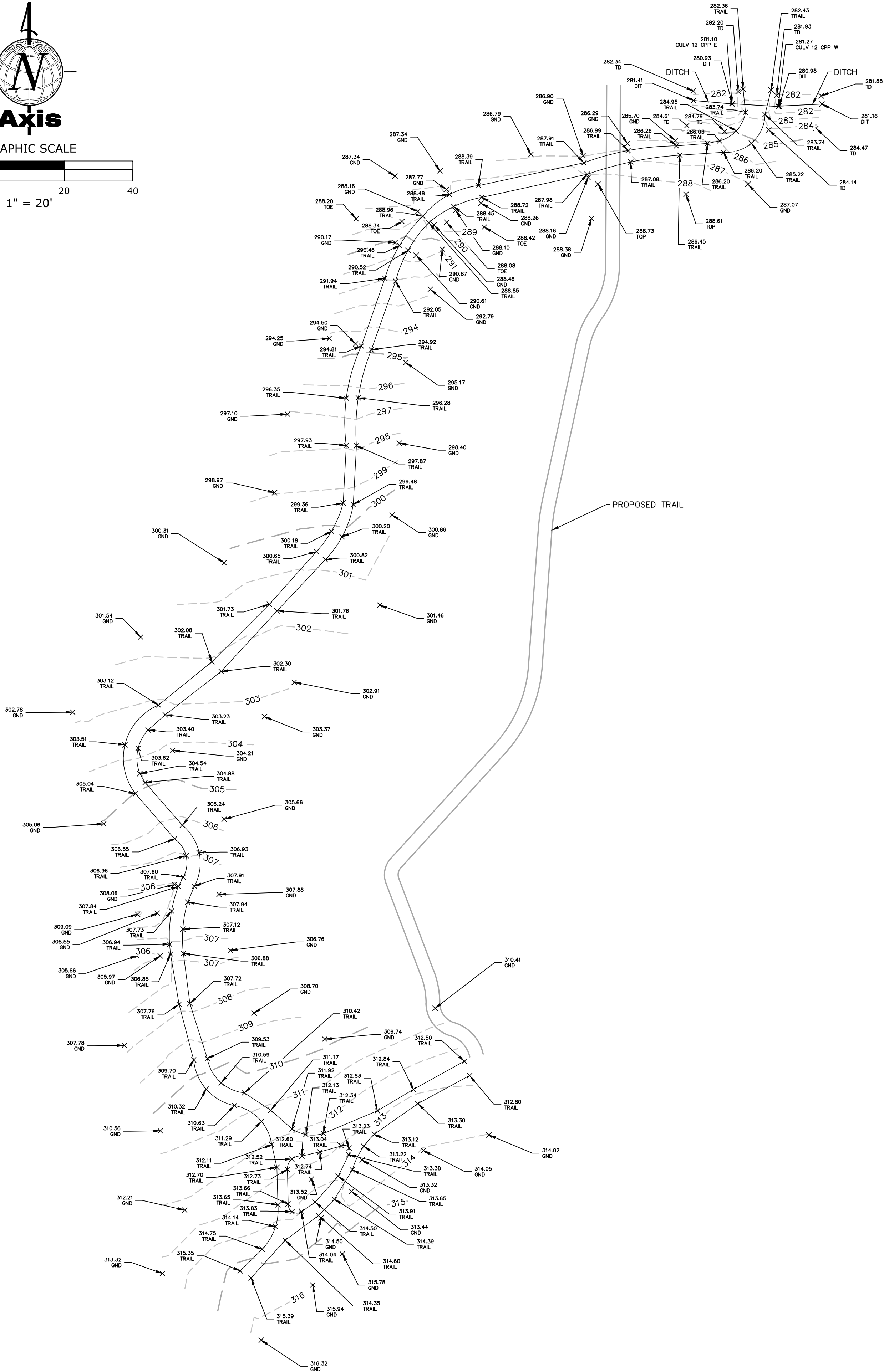
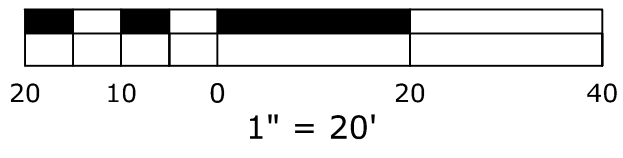
SHEET
2
OF
13
SHEETS
G2

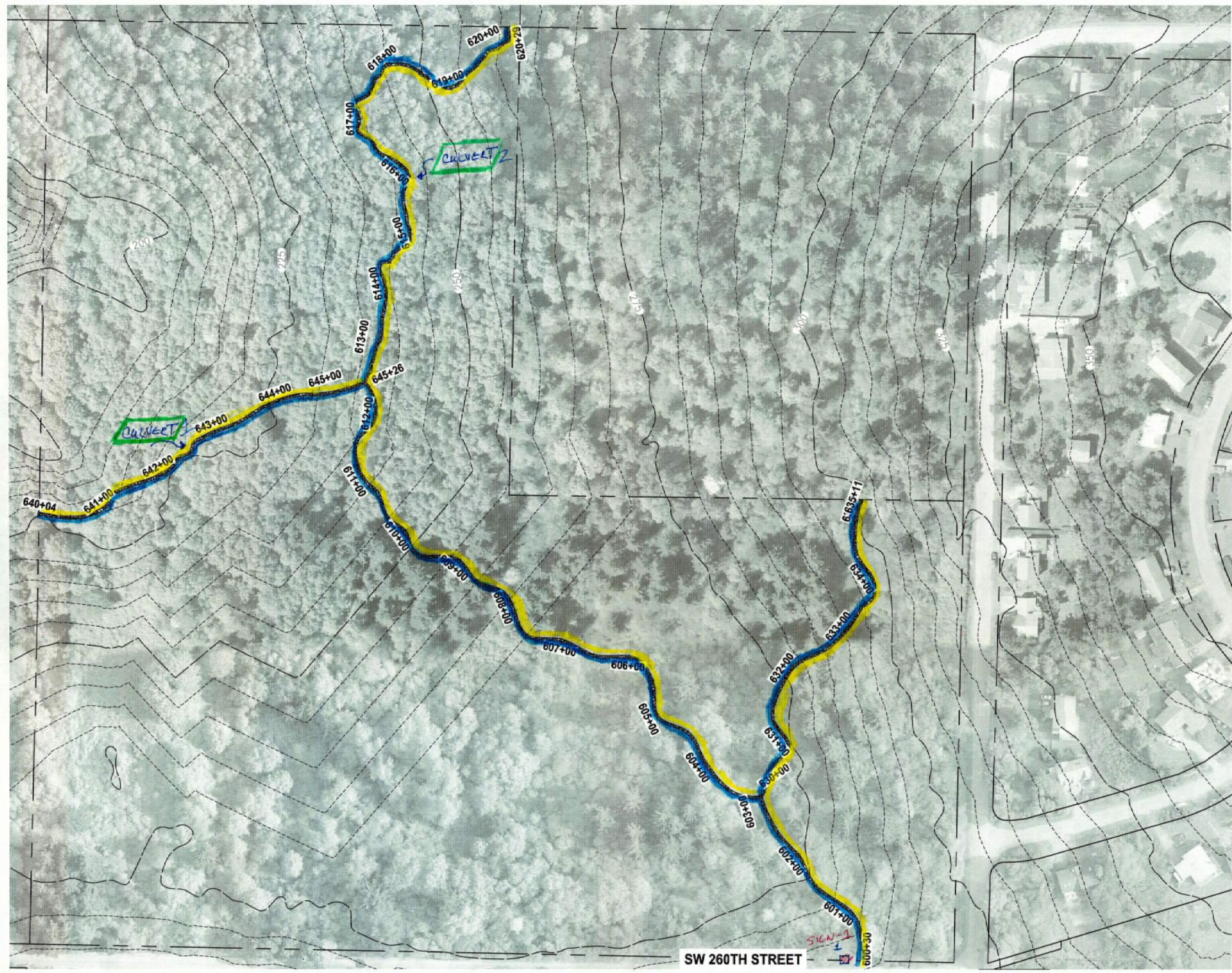
Plotted: May 09, 2019 - 3:50pm
 Filepath: U:\200\Projects\02\131-1521-175 Maury Island\actions\195\131-1521-175-02\2-07.dwg
 Layout Name: 02

Connector Trail - Final Actual Alignment



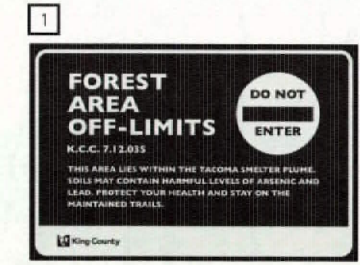
GRAPHIC SCALE





- LEGEND**
- APPROXIMATE PROPERTY BOUNDARY
 - - - 20 --- MAJOR CONTOUR, EXISTING
 - - - MINOR CONTOUR, EXISTING
 - MAJOR CONTOUR, PROPOSED
 - - - MINOR CONTOUR, PROPOSED
 - TRAIL CAP. **2** (D1)
 - CONNECTOR TRAIL. **3** (D1)
 - ACCESS ROAD CAP. **1** (D1)
- CSTC
— MINERAL SOIL
— CULVERT

- SIGNING LEGEND:**
- STEEL SIGN POST WITH NATIVE BACKFILL SUPPORT, SEE DETAIL **1** (D3)

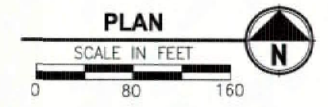


18"x12"



12"x18"

*NOTE: SIGN LOCATIONS ARE TO BE STAKED IN THE FIELD BY CONTRACTOR AND APPROVED BY KING COUNTY PROJECT REPRESENTATIVES PRIOR TO INSTALLATION



BID SET

811
 KNOW WHAT'S BELOW.
 CALL 2 BUSINESS DAYS
 BEFORE YOU DIG.
 (UTILITY LOCATIONS ARE APPROX.)

Project: U:\2020\Projects\Growth\1521-44\GIS\1521-44\GIS\1521-44-02-C2-C7.dwg
 User: Mistry
 Date: 05/09/2019 10:50:15 AM
 Plot: 1:1
 Title: Maury Island Natural Area

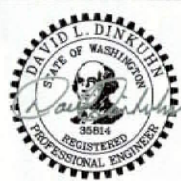
05/09/2019

SEE SHEET C3

SW 260TH STREET

PROJECT #		DATE		REV #	REVISION	BY	DATE	DESIGN TEAM	
ISSUED	D. DINKUHN	05/09/2019		1				ARCH.	N/A
APPROVED				2				STRUCT. ENG.	N/A
REVIEWED	M. YAND	05/09/2019		3				CIVIL ENG.	D. DINKUHN
DRAWN	A. MISURAK	05/09/2019		4				LAND. ARCH.	N/A

PROJECT MANAGER: D. DINKUHN

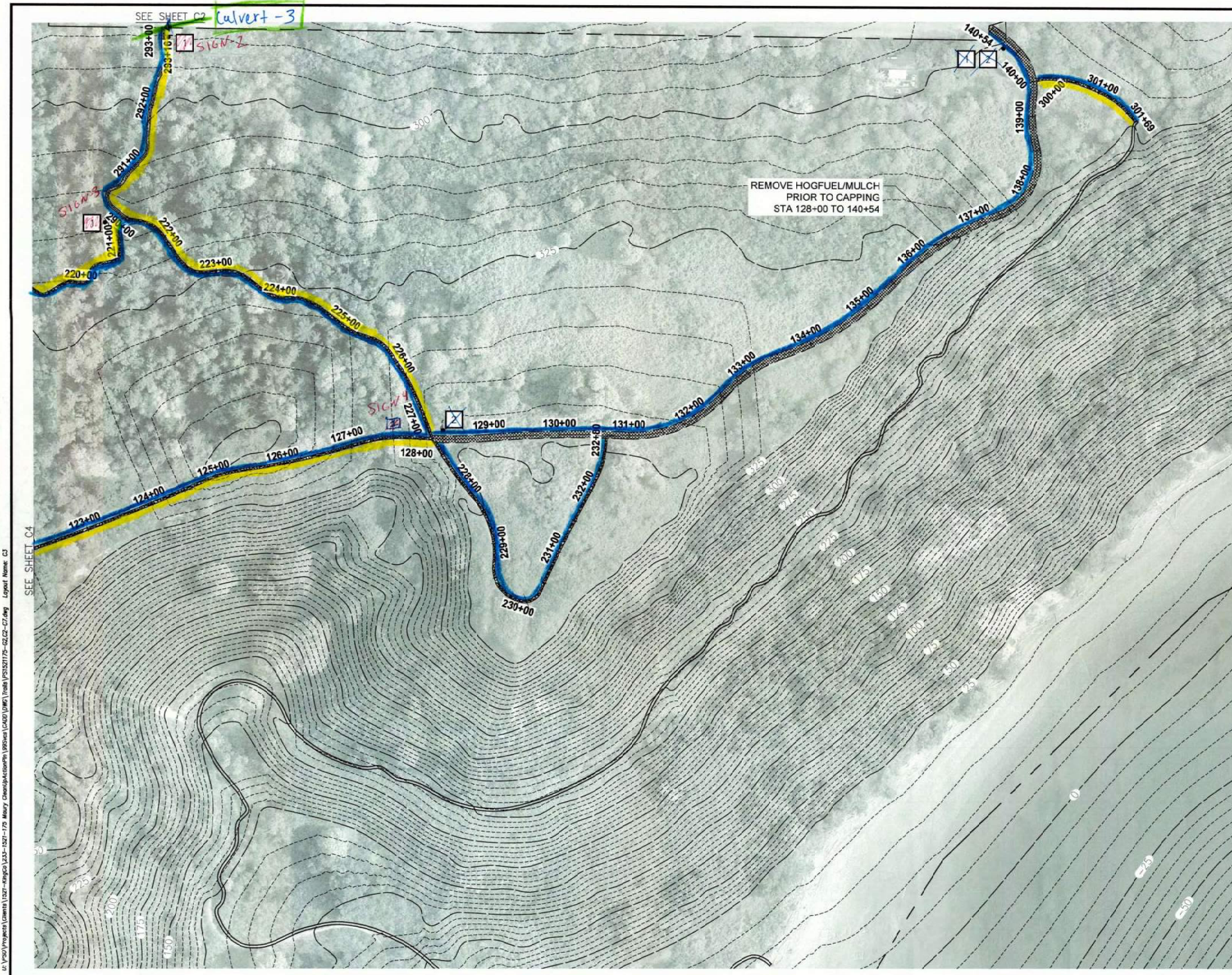


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King County
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 7911 SW 260th Street
 Maury Island, WA 98070

CAPPING PLAN

SHEET
 4
 OF
 13
 SHEETS
C2



05/09/2019

LEGEND

---	APPROXIMATE PROPERTY BOUNDARY
—20—	MAJOR CONTOUR, EXISTING
---	MINOR CONTOUR, EXISTING
---	MAJOR CONTOUR, PROPOSED
---	MINOR CONTOUR, PROPOSED

- CSTC
- MINERAL SOIL
- CULVERT

- TRAIL CAP. ②
SEE DETAIL D1
- CONNECTOR TRAIL. ③
SEE DETAIL D1
- ACCESS ROAD CAP. ①
SEE DETAIL D1

SIGNING LEGEND:

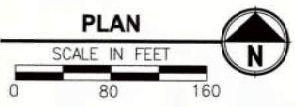
- STEEL SIGN POST WITH NATIVE BACKFILL SUPPORT, SEE DETAIL ①
D3



18"x12"

12"x18"

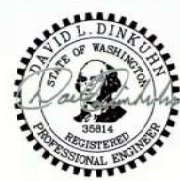
*NOTE: SIGN LOCATIONS ARE TO BE STAKED IN THE FIELD BY CONTRACTOR AND APPROVED BY KING COUNTY PROJECT REPRESENTATIVES PRIOR TO INSTALLATION



BID SET

Project: May 08, 2019 - 3:58pm
File Path: U:\Projects\Comms\1525-Ring\3133-Ring\3133-Ring\CAD\DWG\Trail\15252175-02-C2-C7.dwg
Layout Name: C3

PROJECT #		DATE		REV #	REVISION	BY	DATE	ARCH.	N/A
ISSUED	D. DINKUHN	05/09/2019		①				STRUCT. ENG.	N/A
APPROVED				②				CIVIL ENG.	D. DINKUHN
REVIEWED	M. YAND	05/09/2019		③				LAND. ARCH.	N/A
DRAWN	A. MISIURAK	05/09/2019		④					



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 Parks and Recreation Division
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 Christie True, Director

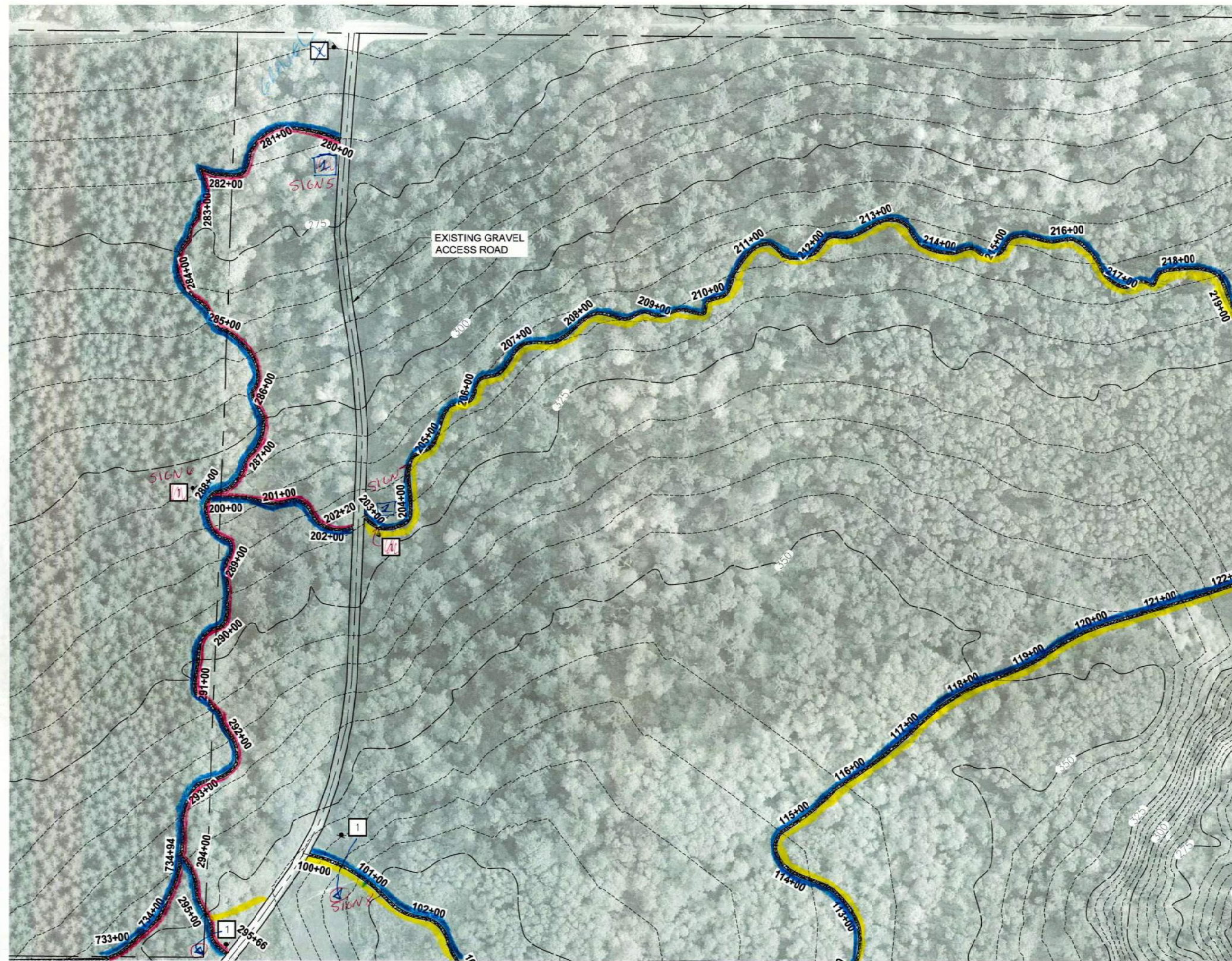
King County
 Maury Island Open Space Remediation
 7911 SW 260th Street
 Maury Island, WA 98070

SHEET
5
OF
13
SHEETS
C3

CAPPING PLAN

811
 KNOW WHAT'S BELOW.
 CALL 2 BUSINESS DAYS
 BEFORE YOU DIG.
 (UTILITY LOCATIONS ARE APPROX.)

Project: Maury Island Open Space Remediation, 7911 SW 260th Street, Seattle, WA 98148
 Date: 05/09/2019
 Author: DINKUHN
 Title: CAPPING PLAN



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- MAJOR CONTOUR, EXISTING
- MINOR CONTOUR, EXISTING
- MAJOR CONTOUR, PROPOSED
- MINOR CONTOUR, PROPOSED
- TRAIL CAP. (2) D1 SEE DETAIL
- CONNECTOR TRAIL. (3) D1 SEE DETAIL
- ACCESS ROAD CAP. (1) D1 SEE DETAIL

CSTC

MINERAL SOIL

CSTC TOP 3"

SIGNING LEGEND:

- STEEL SIGN POST WITH NATIVE BACKFILL SUPPORT, SEE DETAIL (1) D3

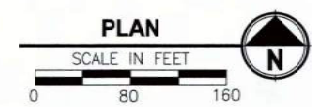
1

18"x12"

2

12"x18"

*NOTE: SIGN LOCATIONS ARE TO BE STAKED IN THE FIELD BY CONTRACTOR AND APPROVED BY KING COUNTY PROJECT REPRESENTATIVES PRIOR TO INSTALLATION

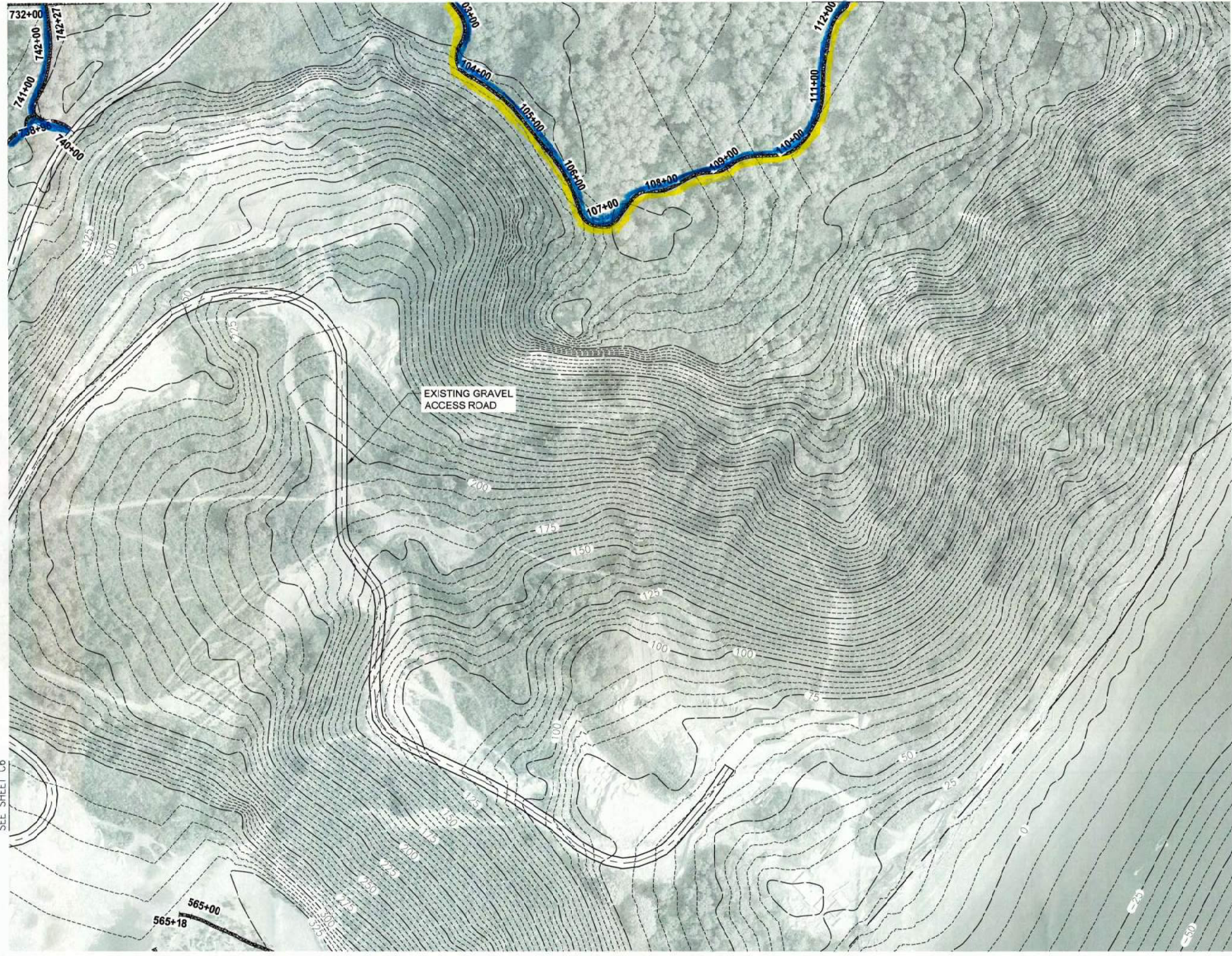


05/09/2019

BID SET

811
 KNOW WHAT'S BELOW.
 CALL 2 BUSINESS DAYS
 BEFORE YOU DIG.
 (UTILITY LOCATIONS ARE APPROX.)

PROJECT #			PROJECT MANAGER: D. DINKUHN				DESIGN TEAM		 King County Department of Natural Resources and Parks Parks and Recreation Division Capital Projects Section 201 S. Jackson St., Suite 700, Seattle, WA 98104 <i>Christie True, Director</i>	King County		SHEET 6 OF 13 SHEETS C4
ISSUED	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A	Maury Island Open Space Remediation 7911 SW 260th Street Maury Island, WA 98070				
ISSUED	D. DINKUHN	05/09/2019	1			STRUCT. ENG.	N/A	CAPPING PLAN				
APPROVED			2			CIVIL ENG.	D.DINKUHN					
REVIEWED	M. YAND	05/09/2019	3			LAND. ARCH.	N/A					
DRAWN	A. MISIURAK	05/09/2019	4									



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- - - 20' --- MAJOR CONTOUR, EXISTING
- - - MINOR CONTOUR, EXISTING
- MAJOR CONTOUR, PROPOSED
- MINOR CONTOUR, PROPOSED
- TRAIL CAP, SEE DETAIL 2 D1
- CONNECTOR TRAIL, SEE DETAIL 3 D1
- ACCESS ROAD CAP, SEE DETAIL 1 D1

CSTC

MINERAL SOIL

SIGNING LEGEND:

- STEEL SIGN POST WITH NATIVE BACKFILL SUPPORT, SEE DETAIL 1 D3



*NOTE: SIGN LOCATIONS ARE TO BE STAKED IN THE FIELD BY CONTRACTOR AND APPROVED BY KING COUNTY PROJECT REPRESENTATIVES PRIOR TO INSTALLATION



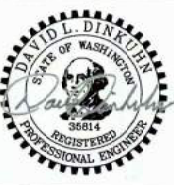
BID SET

811
KNOW WHAT'S BELOW.
CALL 2 BUSINESS DAYS
BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

Project: 05/09/2019 - 5:35pm
 Path: U:\050\Projects\0509-175 Maury Island\0509-175-02-C5.dwg
 User: DINKUHN
 Date: 05/09/2019 15:35:35
 Plot: 05/09/2019 15:35:35
 Plot Size: 11.00 x 17.00
 Plot Scale: 1.00
 Plot Orientation: Landscape
 Plot Name: C5

05/09/2019

Maury Island Natural Area		PROJECT MANAGER: D. DINKUHN				DESIGN TEAM	
PROJECT #	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A
ISSUED	D. DINKUHN	05/09/2019	1			STRUCT. ENG.	N/A
APPROVED			2			CIVIL ENG.	D. DINKUHN
REVIEWED	M. YAND	05/09/2019	3			LAND. ARCH.	N/A
DRAWN	A. MISIURAK	05/09/2019	4				



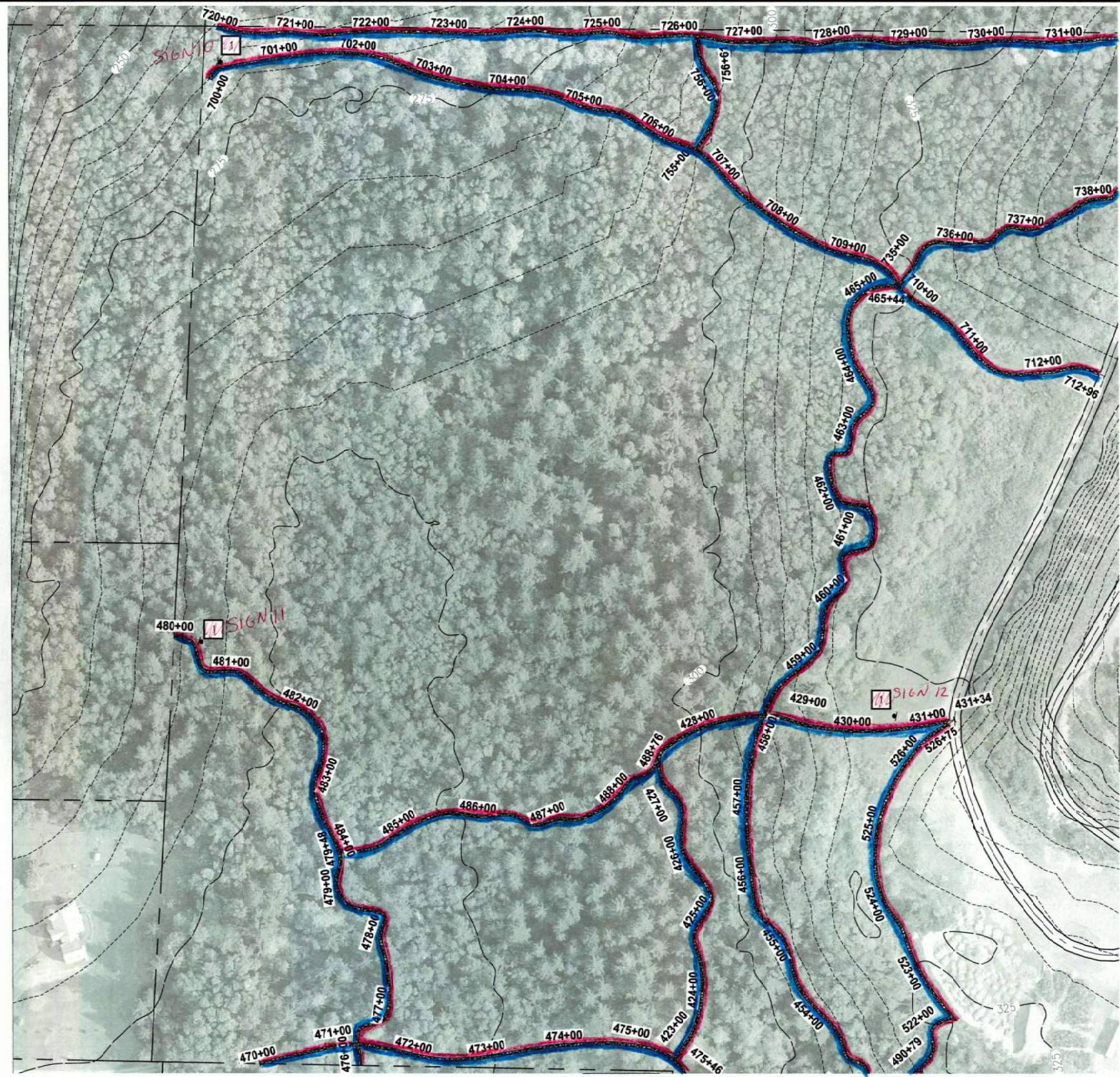
King County
 Department of Natural Resources and Parks
 Parks and Recreation Division
 Capital Projects Section
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 Christie True, Director

King County
 Maury Island Open Space Remediation
 7911 SW 260th Street
 Maury Island, WA 98070

SHEET
7
OF
13
SHEETS
C5

CAPPING PLAN

Project: Maury Island Natural Area, 1521-KingCo, 133-1521-175 Maury Island Natural Area, 1521-KingCo, 133-1521-175 Maury Island Natural Area, 1521-KingCo, 133-1521-175
 Date: 05/09/2019 3:53pm
 User: David L. Dinkuh, 1521-KingCo, 133-1521-175 Maury Island Natural Area, 1521-KingCo, 133-1521-175
 Layer: Name: C6



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- 20--- MAJOR CONTOUR, EXISTING
- MINOR CONTOUR, EXISTING
- MAJOR CONTOUR, PROPOSED
- MINOR CONTOUR, PROPOSED
- TRAIL CAP. SEE DETAIL (2) (D1)
- CONNECTOR TRAIL. SEE DETAIL (3) (D1)
- ACCESS ROAD CAP. SEE DETAIL (1) (D1)

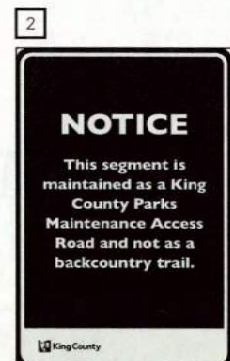
 CSTC
 MINERAL SOIL
 CSTC TOP 3"

SIGNING LEGEND:

- STEEL SIGN POST WITH NATIVE BACKFILL SUPPORT, SEE DETAIL (1) (D3)



18"X12"



12"X18"

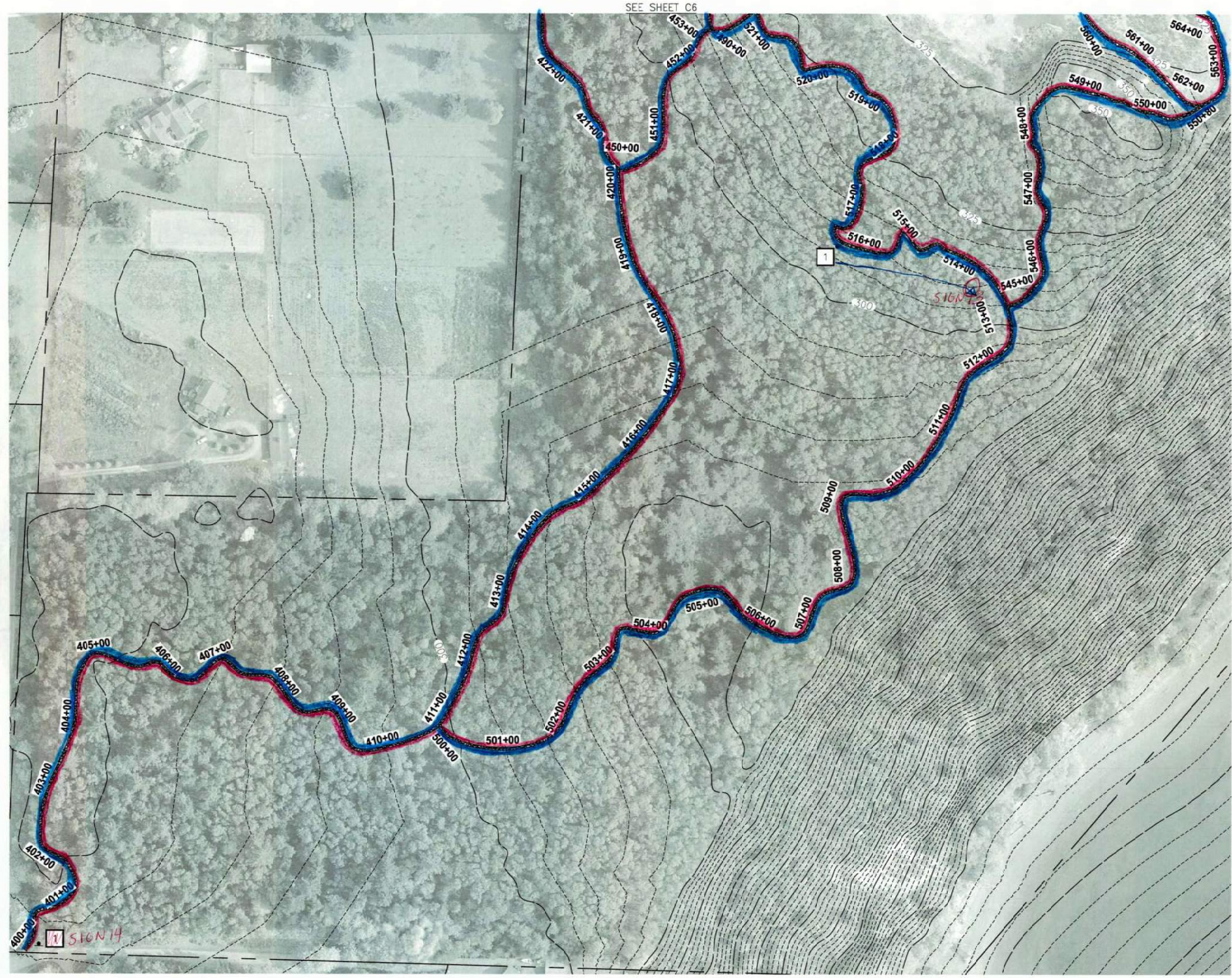
*NOTE: SIGN LOCATIONS ARE TO BE STAKED IN THE FIELD BY CONTRACTOR AND APPROVED BY KING COUNTY PROJECT REPRESENTATIVES PRIOR TO INSTALLATION



KNOW WHAT'S BELOW. CALL 2 BUSINESS DAYS BEFORE YOU DIG. (UTILITY LOCATIONS ARE APPROX.)

BID SET

Maury Island Natural Area		PROJECT MANAGER: D. DINKUHN				DESIGN TEAM			King County Department of Natural Resources and Parks Parks and Recreation Division Capital Projects Section 201 S. Jackson St., Suite 700, Seattle, WA 98104 <i>Christie True, Director</i>	King County Maury Island Open Space Remediation 7911 SW 260th Street Maury Island, WA 98070 CAPPING PLAN	SHEET
PROJECT #	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A				8
ISSUED	D. DINKUHN	05/09/2019	①			STRUCT. ENG.	N/A				OF
APPROVED			②			CIVIL ENG.	D. DINKUHN				13
REVIEWED	M. YAND	05/09/2019	③			LAND. ARCH.	N/A				SHEETS
DRAWN	A. MISIURAK	05/09/2019	④					C6			



LEGEND

- - - - - APPROXIMATE PROPERTY BOUNDARY
- - - - - MAJOR CONTOUR, EXISTING
- - - - - MINOR CONTOUR, EXISTING
- - - - - MAJOR CONTOUR, PROPOSED
- - - - - MINOR CONTOUR, PROPOSED
- ▬▬▬▬ TRAIL CAP, SEE DETAIL (2) DT
- ▬▬▬▬ CONNECTOR TRAIL, SEE DETAIL (3) DT
- ▬▬▬▬ ACCESS ROAD CAP, SEE DETAIL (1) DT

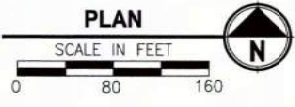
CSTC
 MINERAL SOIL
 CSTC TOP 3"

SIGNING LEGEND:

- ▬ STEEL SIGN POST WITH NATIVE BACKFILL SUPPORT, SEE DETAIL (1) D3



*NOTE: SIGN LOCATIONS ARE TO BE STAKED IN THE FIELD BY CONTRACTOR AND APPROVED BY KING COUNTY PROJECT REPRESENTATIVES PRIOR TO INSTALLATION



811
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 CALL 2 BUSINESS DAYS
 BEFORE YOU DIG.
 (UTILITY LOCATIONS ARE APPROX.)

BID SET

Project: Maury Island Natural Area, Stationing: 400+00 to 564+00, Date: 05/09/2019, Designer: D. DINKUHN, Drafter: A. MISURAK

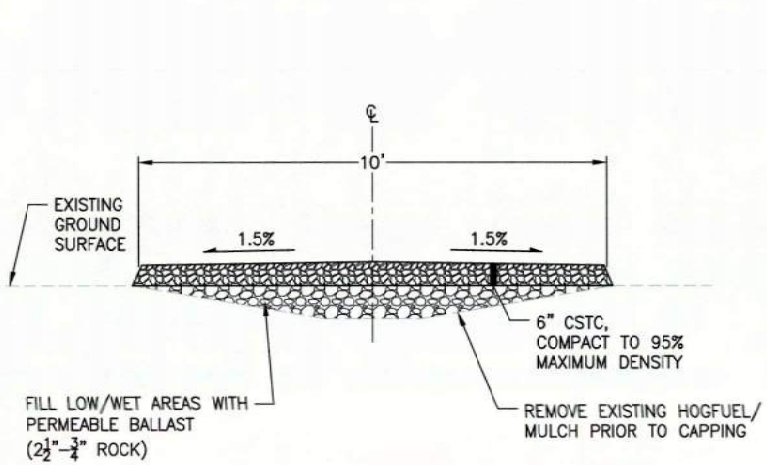
PROJECT #			PROJECT MANAGER: D. DINKUHN				DESIGN TEAM	
PROJECT #	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A	
ISSUED	D. DINKUHN	05/09/2019	①			STRUCT. ENG.	N/A	
APPROVED			②			CIVIL ENG.	D. DINKUHN	
REVIEWED	M. YAND	05/09/2019	③			LAND. ARCH.	N/A	
DRAWN	A. MISURAK	05/09/2019	④					



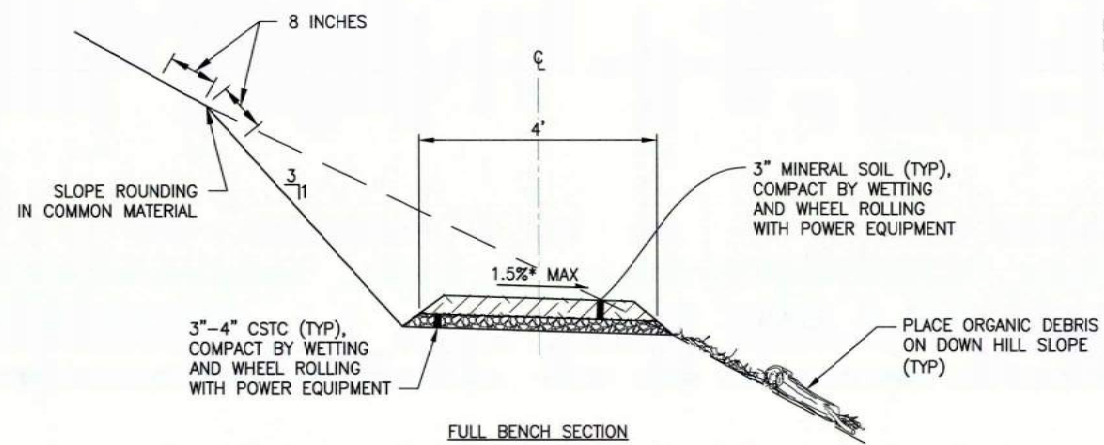
King County
 Department of Natural Resources and Parks
 Parks and Recreation Division
 Capital Projects Section
 201 S. Jackson St., Suite 700, Seattle, WA 98104
 Christie True, Director

King County
 Maury Island Open Space Remediation
 7911 SW 260th Street
 Maury Island, WA 98070
CAPPING PLAN

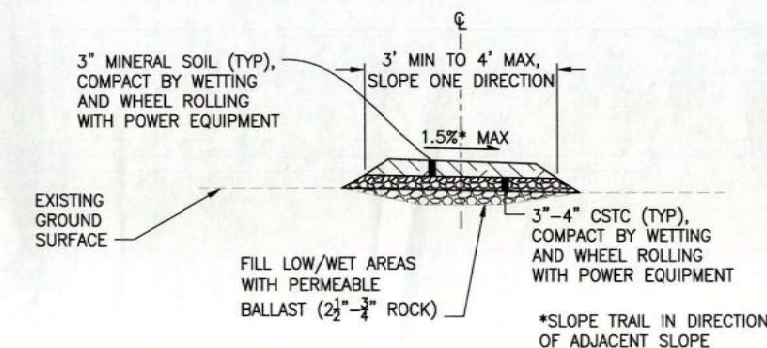
SHEET
 9
 OF
 13
 SHEETS
C7



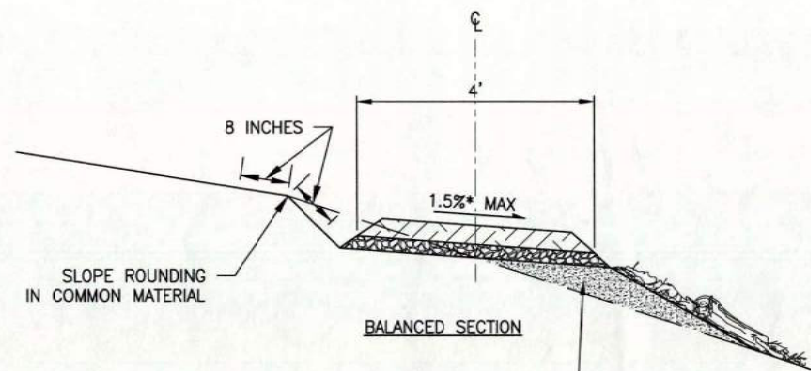
**ACCESS ROAD GRAVEL CAP
DETAIL**
NO SCALE TYP



FULL BENCH SECTION

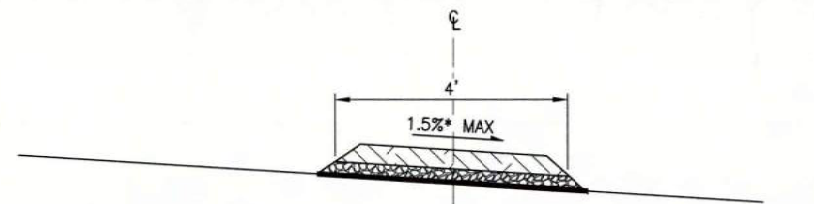


**TRAIL GRAVEL CAP
DETAIL**
NO SCALE TYP



BALANCED SECTION

BACKFILL WITH SUITABLE MATERIAL
PER THE ENGINEER SEE SPECIAL
PROVISIONS SECTION 2-09.39(1)E



FLAT SECTION

*SLOPE TRAIL IN DIRECTION
OF ADJACENT SLOPE

**CONNECTOR TRAIL
TYPICAL CROSS SECTIONS
DETAIL**
NO SCALE

05/09/2019

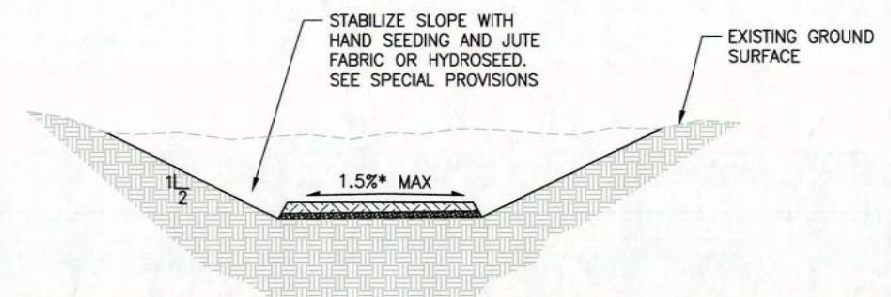
SLOPE FINISH
REMOVE ROOTS THAT PROTRUDE FROM THE
BACKSLOPE WITH DIAMETERS GREATER THAN
1".

TRAILBED FINISH
REMOVE LOOSE ROCK ON THE TRAILBED WITH A
DIMENSION GREATER THAN 4".

REMOVE OR REDUCE EMBEDDED ROCK THAT
PROTRUDES MORE THAN 2".

NOTES:

1. ORGANIC DEBRIS CONSISTS OF LOGS, LIMBS, BRUSH, AND ROCKS PLACED RANDOMLY IN A WAY TO CATCH SEDIMENT MOVEMENT.
2. LIMB ALL TREES AND SHRUBS AND TAMP ORGANIC DEBRIS INTO GROUND SO THAT 80% OF ORGANIC DEBRIS IS IN CONTACT WITH THE GROUND.



**CONNECTOR TRAIL
STA 00+30
SECTION**
NO SCALE

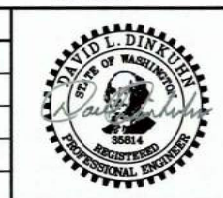
C1

BID SET



KNOW WHAT'S BELOW.
CALL 2 BUSINESS DAYS
BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

PROJECT #		DATE		REV #	REVISION	BY	DATE	ARCH.	N/A
ISSUED	D. DINKUHN	05/09/2019	1					STRUCT. ENG.	N/A
APPROVED			2					CIVIL ENG.	D.DINKUHN
REVIEWED	M. YAND	05/09/2019	3					LAND. ARCH.	N/A
DRAWN	A. MISIURAK	05/09/2019	4						

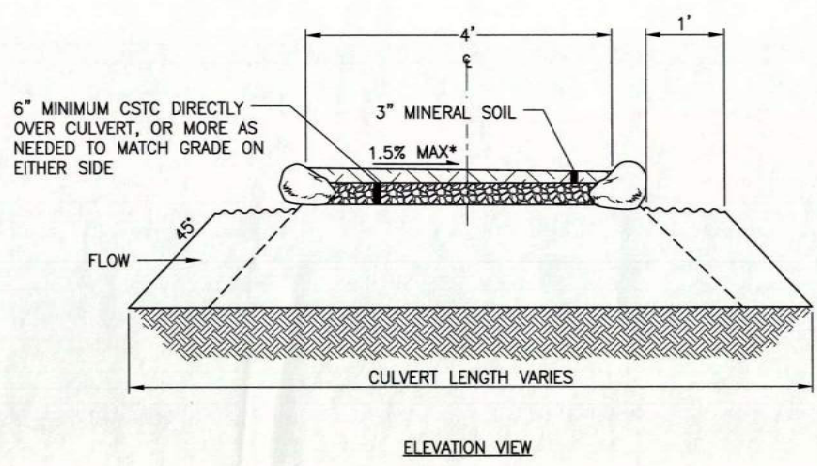
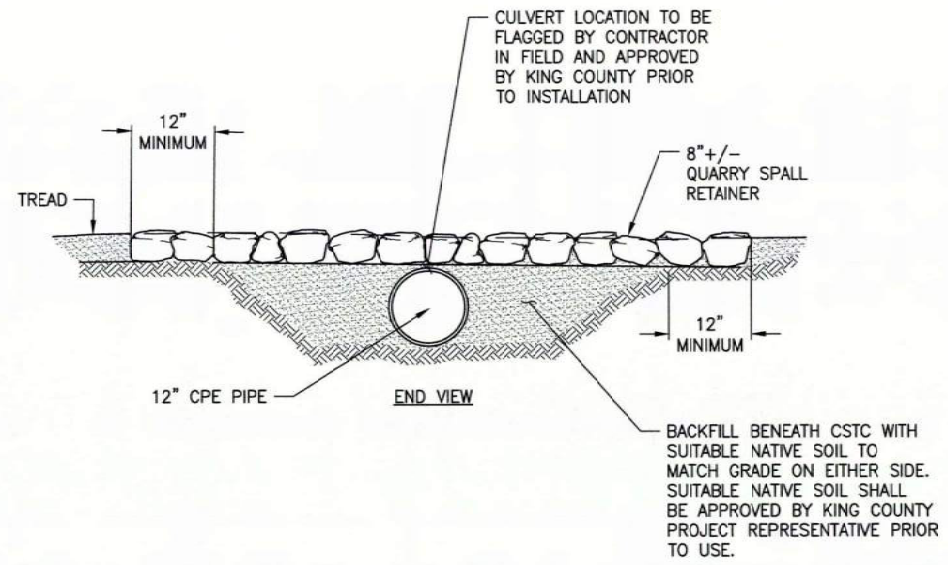


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Maury Island, WA 98070

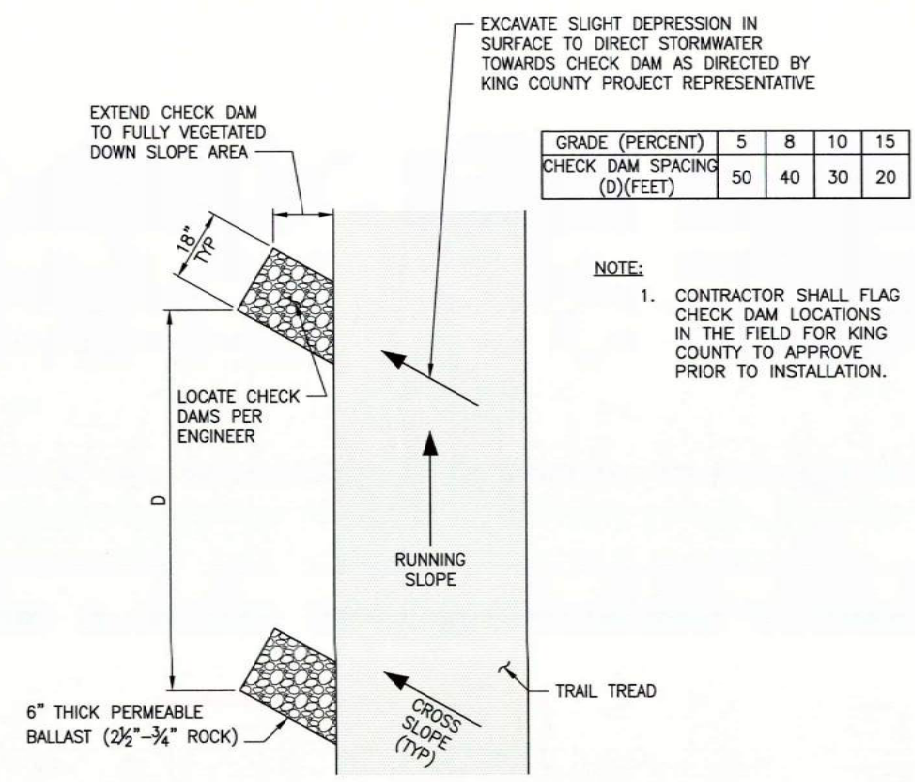
SHEET
10
OF
13
SHEETS
D1

DETAILS AND SECTIONS



- NOTES:
1. COMPACT BACKFILL IN 6 INCH LIFTS UNTIL NO VISUAL DISPLACEMENT.
 2. NO ROCK LARGER THAN 1 1/2 INCHES WITHIN 12 INCHES OF PIPE
- *SLOPE TRAIL IN DIRECTION OF ADJACENT SLOPE

12" TRAIL CULVERT
DETAIL
NO SCALE



TYPICAL TRAIL CHECK DAM
DETAIL
NO SCALE

05/09/2019

BID SET

811
KNOW WHAT'S BELOW.
CALL 2 BUSINESS DAYS
BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

Maury Island Natural Area		PROJECT MANAGER: D. DINKUHN			DESIGN TEAM		
PROJECT #	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A
ISSUED	D. DINKUHN	05/09/2019	1			STRUCT. ENG.	N/A
APPROVED			2			CIVIL ENG.	D. DINKUHN
REVIEWED	M. YAND	05/09/2019	3			LAND. ARCH.	N/A
DRAWN	A. MISIURAK	05/09/2019	4				

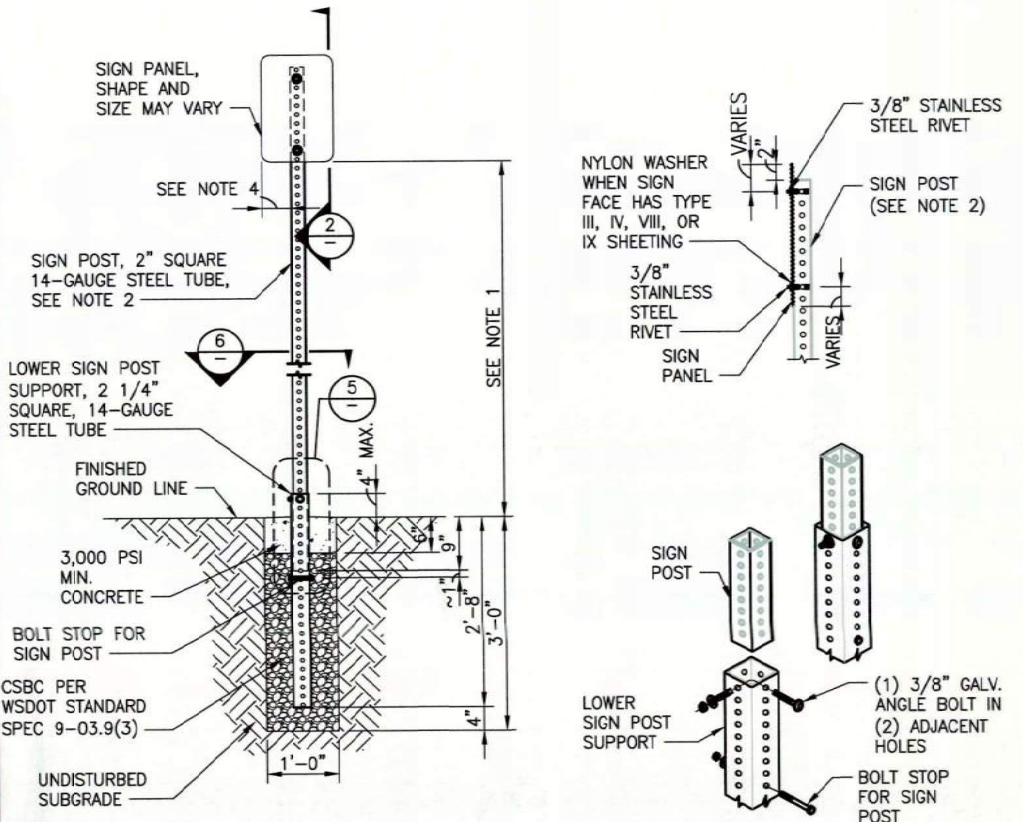


King County
Department of Natural Resources and Parks
Parks and Recreation Division
Capital Projects Section
201 S. Jackson St., Suite 700, Seattle, WA 98104
Christie True, Director

King County
Maury Island Open Space Remediation
7911 SW 260th Street
Maury Island, WA 98070

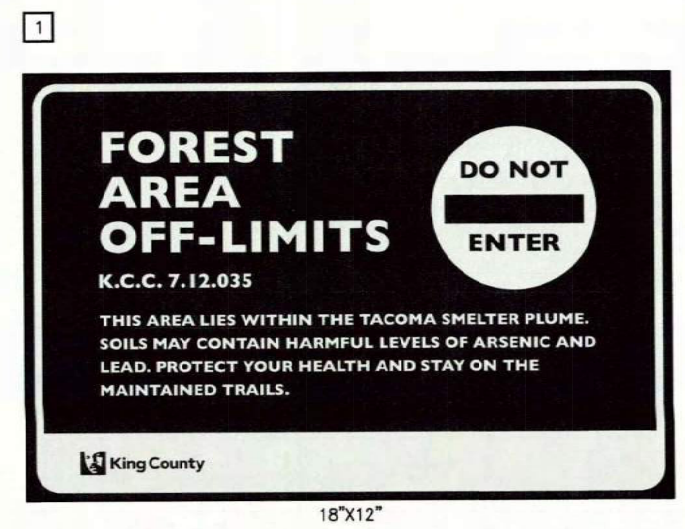
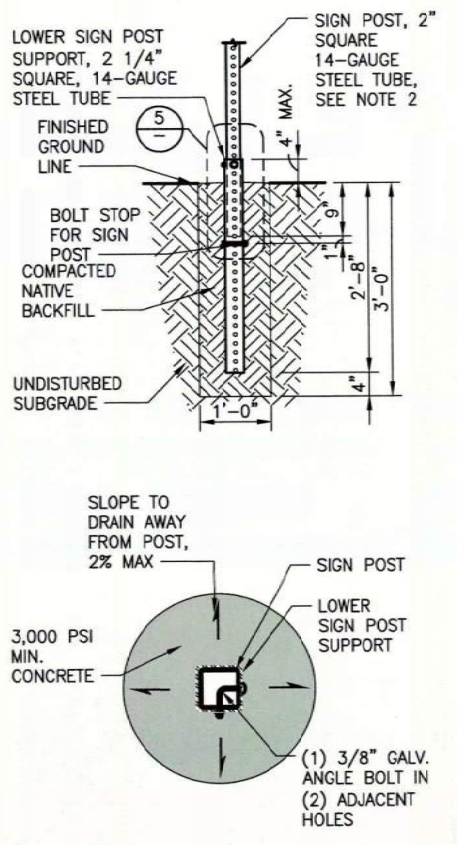
SHEET
11
OF
13
SHEETS
D2

Plotted: May 09, 2019 - 2:49pm File: \\p\proj\maury\maury\maury\10500pma1\10500pma1.dwg (User: dbk\jst) Plot: D:\plots\maury\maury.dwg



- SIGN POST NOTES:**
1. USE 7 FOOT MIN. MOUNTING HEIGHT FOR TRAFFIC SIGNS. USE 5 FOOT MIN. MOUNTING HEIGHT FOR TRAIL SIGNS.
 2. PERFORATED SQUARE STEEL POST SHALL MEET REQUIREMENTS OF STANDARD SPECIFICATION 9-06.
 3. USE ONLY BASE CONNECTION HARDWARE THAT MEET THE REQUIREMENTS OF STANDARD SPECIFICATIONS 9-06 AND 9-28.
 4. USE OF CONCRETE FOOTING SIGN SUPPORT (DETAIL 1) OR NATIVE BACKFILL SIGN SUPPORT (DETAIL 4) PER KC PARKS ENGINEER'S DECISION.
 5. LATERAL CLEARANCE DISTANCES FOR TRAIL AND TRAFFIC SIGNS SHALL BE PER KC PARKS STANDARDS, MUTCD OR WSDOT REQUIREMENTS, LOCAL JURISDICTION, OR AS APPROVED BY THE ENGINEER.
 6. REFLECTOR ADDED TO SIGN POST PER KC PARKS ENGINEER'S DETERMINATION.
 7. DIMENSIONS FOR THE PARTS USED TO ASSEMBLE THE BASE CONNECTIONS ARE INTENTIONALLY NOT SHOWN. BASE CONNECTIONS ARE PATENTED, MANUFACTURED PRODUCTS THAT ARE IN COMPLIANCE WITH NCHRP 350 CRASH TEST CRITERIA. BASE CONNECTION DETAILS ARE SHOWN ONLY TO ILLUSTRATE ASSEMBLY OF PARTS.

**STEEL SIGN POST
DETAIL**
NO SCALE



**SIGNS
DETAIL**
NO SCALE

- SIGN NOTES:**
1. SIGN MATERIAL SHALL BE 18" X 12" OR 12" X 18" 4MM ALUMINUM COMPOSITE MATERIAL (ACM) WITH HIGH INTENSITY PRISMATIC SIGN FINISH AND ANTI-GRAFFITI COATING.
 2. SIGNS SHALL BE COATED IN AVERY OL-100 ANTI-GRAFFITI PM 01000PMA1 AND 3M PROTECTIVE OVERLAY FILM 1150 TRANSPARENT OR APPROVED EQUALS.
 3. SIGN COLOR BACKGROUND SHALL BE PANTONE MATCHING SYSTEM (PMS) COLOR KING BLUE 049. SIGN TEXT SHALL BE PMS COLOR BEIGE #A8220-0.



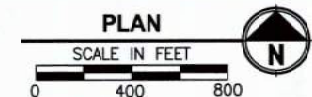
05/09/2019

BID SET

811
KNOW WHAT'S BELOW.
CALL 2 BUSINESS DAYS
BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

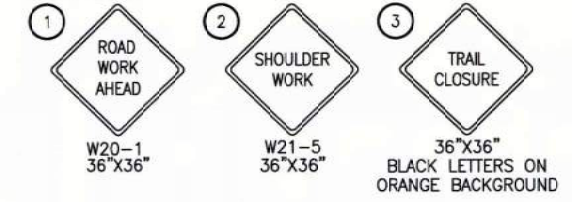
Maury Island Natural Area			PROJECT MANAGER: D. DINKUHN				DESIGN TEAM				King County Department of Natural Resources and Parks Parks and Recreation Division Capital Projects Section 201 S. Jackson St., Suite 700, Seattle, WA 98104 Christie True, Director	King County Maury Island Open Space Remediation 7911 SW 260th Street Maury Island, WA 98070		SHEET
PROJECT #	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A		12					
ISSUED	D. DINKUHN	05/09/2019	①			STRUCT. ENG.	N/A		OF					
APPROVED			②			CIVIL ENG.	D. DINKUHN		13					
REVIEWED	M. YAND	05/09/2019	③			LAND. ARCH.	N/A		SHEETS					
DRAWN	A. MISIURAK	05/09/2019	④							D3				
DETAILS														

Project: May 09, 2019 - 3:54pm
 Filepath: U:\PSD\Projects\Chem\1521-180\24\33-1521-179_Maury_Chem\1521-179\1521-179-1.dwg Layout: Name: T1



05/09/2019

SIGN KEY:



SYMBOL LEGEND:



TRAFFIC CONTROL NOTES:

1. TRAFFIC CONTROL SHOWN IS FOR SHOULDER WORK ONLY AND DOES NOT INCLUDE LANE CLOSURE. CONTRACTOR-PROPOSED LANE CLOSURES SHALL BE APPROVED BY THE KING COUNTY PROJECT REPRESENTATIVE AND SHALL BE IN ACCORDANCE WITH APPROVED TRAFFIC CONTROL PLAN, MEETING THE MINIMUM REQUIREMENTS OF WSDOT STD PLAN TC1 ONE LANE TWO-WAY TRAFFIC CONTROL WITH FLAGGERS.
2. TRAIL CLOSURE SIGNS SHALL BE PLACED AT BEGINNING AND END OF CLOSED TRAIL SEGMENTS IN ACCORDANCE WITH APPROVED TRAFFIC CONTROL PLAN.



KNOW WHAT'S BELOW.
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(UTILITY LOCATIONS ARE APPROX.)

BID SET

Maury Island Natural Area		PROJECT MANAGER: D. DINKUHN			DESIGN TEAM		
PROJECT #	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A
ISSUED	D. DINKUHN	05/09/2019	①			STRUCT. ENG.	N/A
APPROVED			②			CIVIL ENG.	D.DINKUHN
REVIEWED	M. YAND	05/09/2019	③			LAND. ARCH.	N/A
DRAWN	A. MISIURAK	05/09/2019	④				



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 Maury Island Open Space Remediation
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 Maury Island, WA 98070

TEMPORARY TRAFFIC CONTROL PLAN

SHEET	13
OF	13
SHEETS	T1

Appendix B
Draft Final Construction Plans
Phase 1B – Skeet Range Cleanup



VICINITY MAP



KING COUNTY MAURY ISLAND OPEN SPACE REMEDATION - PHASE 01 - PARKING AREA

OWNER: KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS
 PARKS AND RECREATION DIVISION - CAPITAL PROJECTS SECTION
 201 SOUTH JACKSON STREET, SUITE 700, SEATTLE, WA 98104-3855
CONTACT: LINDSEY MILLER
 PH: 206-477-3549 EMAIL: LINDSEY.MILLER@KINGCOUNTY.GOV
SURVEYOR: COMPANY NAME
 KING COUNTY ROAD SERVICES DIVISION - SURVEY UNIT

ARCHITECT/ENGINEER/LANDSCAPE ARCHITECT: PARAMETRIX
 PARAMETRIX
CONTACT: DAVID DINKUHN
 PH: 360-850-5319 EMAIL: DDINKUHN@PARAMETRIX.COM

PROJECT DATA

PROJECT ADDRESS:

7911 SW 260th Street, Maury Island, WA 98070

TAX PARCEL NUMBER:

282203-9023

LEGAL DESCRIPTION

NW QTR NW QTR STR 28-22-03; EXC NE QTR THEREOF; & EXC PORTION THEREOF LYING WITHIN SW 260TH ST & 79TH AVE SW; TGW GOVT LOT 4 IN NW QTR STR 28-22-03, EXC PORTION THEREOF LYING WITHIN SW 260TH ST; TGW SE QTR NE QTR STR 29-22-03; EXC PORTION THEREOF LYING WITHIN SW 260TH ST; TGW GOVT LOT 4 IN SE QTR STR 29-22-03; TGW NW QTR SE QTR STR 29-22-03; TGW GOVT LOT 4 IN SE QTR STR 29-22-03; TGW GOVT LOT 5 IN SE QTR STR 29-22-03; EXC W 672 2/7 FT OF N 700 FT THEREOF; TGW 2ND CLASS TIDELANDS ADJOINING GOVT LOTS 3 & 4 OF SECTION 28 AND GOVT LOTS 4 & 5 OF SECTION 29 ALL IN TWP 22 RANGE 3 EXTENDING TO LINE OF EXTREME LOW TIDE.

PROJECT DESCRIPTION

THIS PROJECT PROVIDES FOR THE IMPROVEMENT OF THE MAURY ISLAND OPEN SPACE PROPERTY LOCATED AT APPROXIMATELY 7911 SW 260TH STREET IN VASHON ISLAND IN KING COUNTY. THE PROJECT INCLUDES CLEARING AND GRUBBING, SITE PREPARATION, EROSION CONTROL, TRAFFIC SAFETY CONTROL AND RELATED WORK, PLASTIC GRID SYSTEM, COMMERCIAL HMA, SIGNS, RAIL FENCING, WEED FABRIC, PLANTING, AND OTHER WORK ALL IN ACCORDANCE WITH THE ATTACHED PLANS, THESE SPECIAL PROVISIONS, THE STANDARD SPECIFICATIONS, THE KCRDCS, AND THE APWA/WSDOT STANDARD PLANS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.

ZONING

EXISTING: PARK, PUBLIC
 EXISTING USE: PARK, PUBLIC

PROPOSED USE: SAME AS EXISTING

EXISTING SITE STRUCTURES

NONE

NEW / ALTERED STRUCTURES

NONE

ALTERED SITE AREAS

NEW LOT COVERAGE: N/A
 NEW IMPERVIOUS SURFACE AREA: 29,395 SF
 ALTERED IMPERVIOUS SURFACE AREA: NA
 OFF STREET PARKING: N/A
 RECYCLABLE STORAGE: N/A

APPLICABLE CODES AND DESIGN CRITERIA

APWA/WSDOT STANDARD SPECIFICATIONS AND STANDARD PLANS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (CURRENT EDITION)

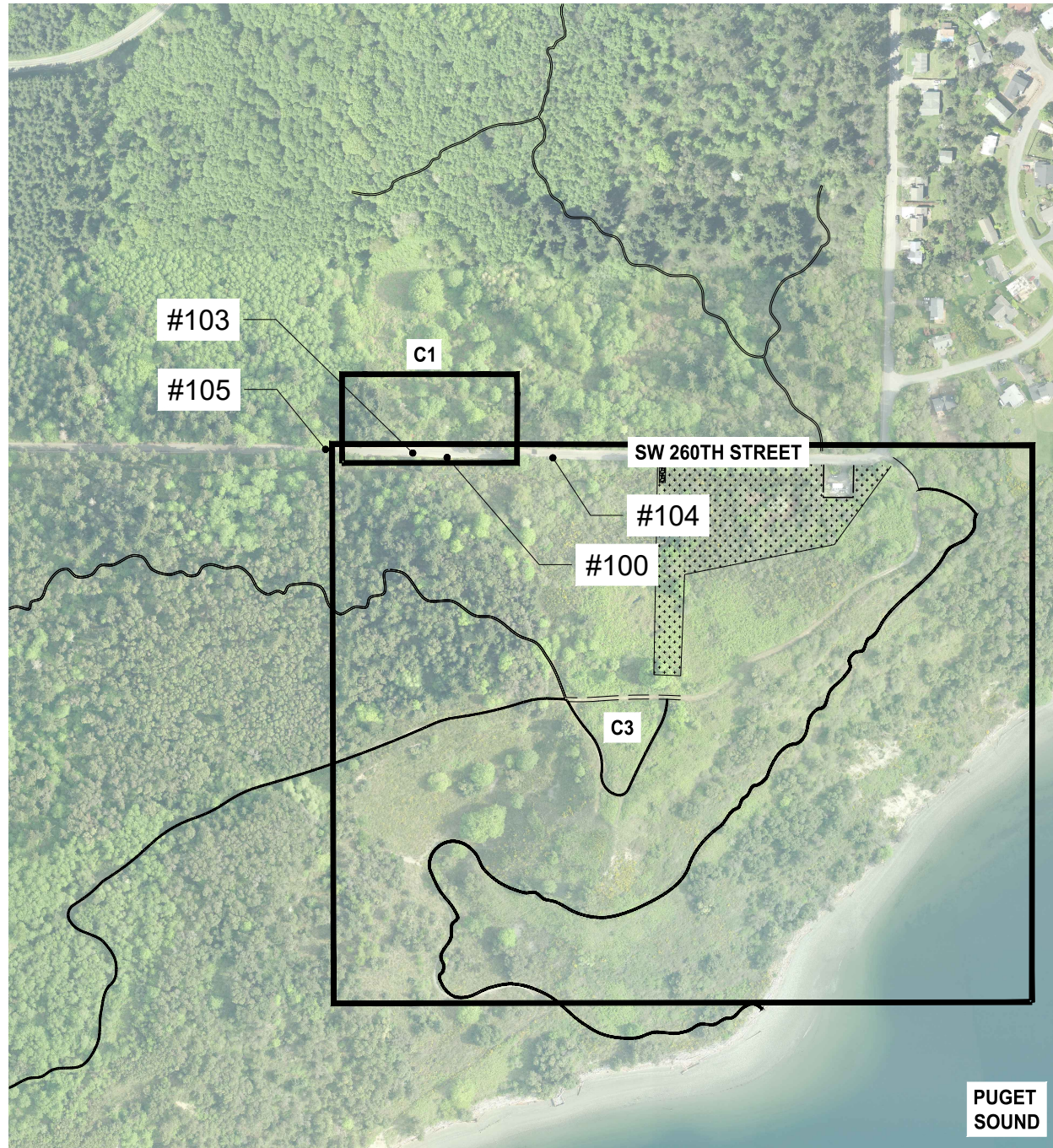
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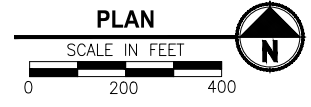


KNOW WHAT'S BELOW.
 CALL 2 BUSINESS DAYS
 BEFORE YOU DIG.
 (UTILITY LOCATIONS ARE APPROX.)

Maury Island Open Space			PROJECT MANAGER: D. DINKUHN				DESIGN TEAM			King County Department of Natural Resources and Parks Parks and Recreation Division Capital Projects Section 201 S. Jackson St., Suite 700, Seattle, WA 98104 <i>Christie True, Director</i>	King County Maury Island Open Space Remediation 7911 SW 260th Street Maury Island, WA 98070	SHEET
PROJECT #	C01456C20	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A				1
ISSUED	D. DINKUHN	04/22/20	1				STRUCT. ENG.	N/A				OF
APPROVED			2				CIVIL ENG.	D.DINKUHN				12
REVIEWED			3				LAND. ARCH.	N/A				SHEETS
DRAWN	R.FIALA	03/27/20	4									G1
										COVER SHEET		



PUGET SOUND



SHEET INDEX		
DWG NO.	SHT NO.	SHEET TITLE
1	G1	COVER SHEET
2	G2	SHEET INDEX, KEY MAP, NOTES
3	SP1	SITE PREPARATION AND DEMOLITION
4	C1	PARKING LOT GRADING AND LAYOUT
5	C2	STRIPING AND SIGNING PLAN
6	C3	INVASIVE PLANT CLEARING PLAN
7	LS1	PARKING LOT PLANTING PLAN
8	D1	DETAILS
9	D2	DETAILS
10	D3	DETAILS
11	D4	DETAILS
12	T1	TEMPORARY TRAFFIC CONTROL PLAN

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- TRAIL
- ACCESS ROAD
- [Dotted Pattern] WEED FABRIC AREA

SURVEY NOTES

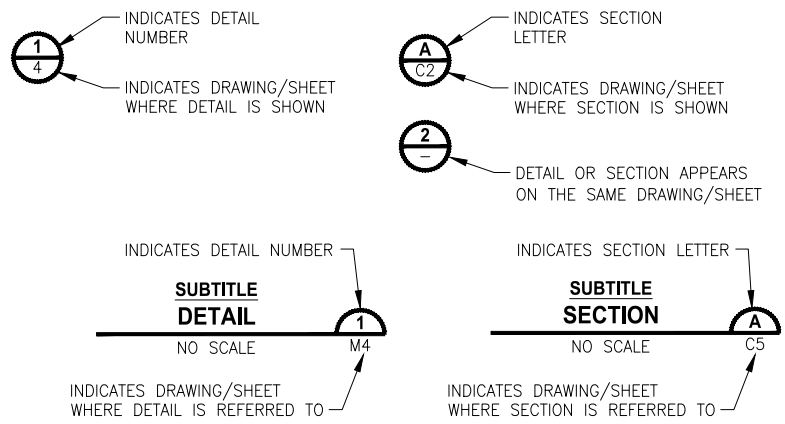
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POINT#	ELEVATION	NORTHING	EASTING	DESCRIPTION
100	281.81	139444.48	1242979.28	MAGS
103	282.37	139465.16	1242893.62	MAGS
104	277.14	139457.64	1243242.94	MAGS
105	281.71	139466.86	1242681.16	MAGS

SURVEY LEGEND
MAGS = MAGNAIL

- SURVEY NOTES**
- ELEVATION DATUM = NAVD 88
 - HORIZONTAL DATUM = NAD 83/91
- WASHINGTON STATE PLANE,
NORTH ZONE

- SOURCE:**
- ELEVATION CONTOURS FROM KING COUNTY GIS, EXCEPT FOR SHEETS C1 AND C2.
 - PROPERTY BOUNDARIES FROM KING COUNTY GIS, EXCEPT FOR SHEETS C1 AND C2.

DETAIL AND SECTION DESIGNATION



U:\PSO\Projects\Clients\1521-KingCo\233-1521-343 MauryIsOpenSpacePh1\98Sweat\CADD\DWG\GParking_Lot\PS1521175-52.dwg

Maury Island Open Space		PROJECT MANAGER: D. DINKUHN				DESIGN TEAM	
PROJECT #	C01456C20	DATE	REV #	REVISION	BY	DATE	ARCH.
ISSUED	D. DINKUHN	04/22/20	①				N/A
APPROVED			②				STRUCT. ENG. N/A
REVIEWED			③				CIVIL ENG. D.DINKUHN
DRAWN	R.FIALA	03/27/20	④				LAND. ARCH. N/A



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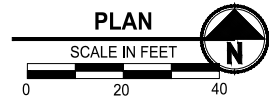
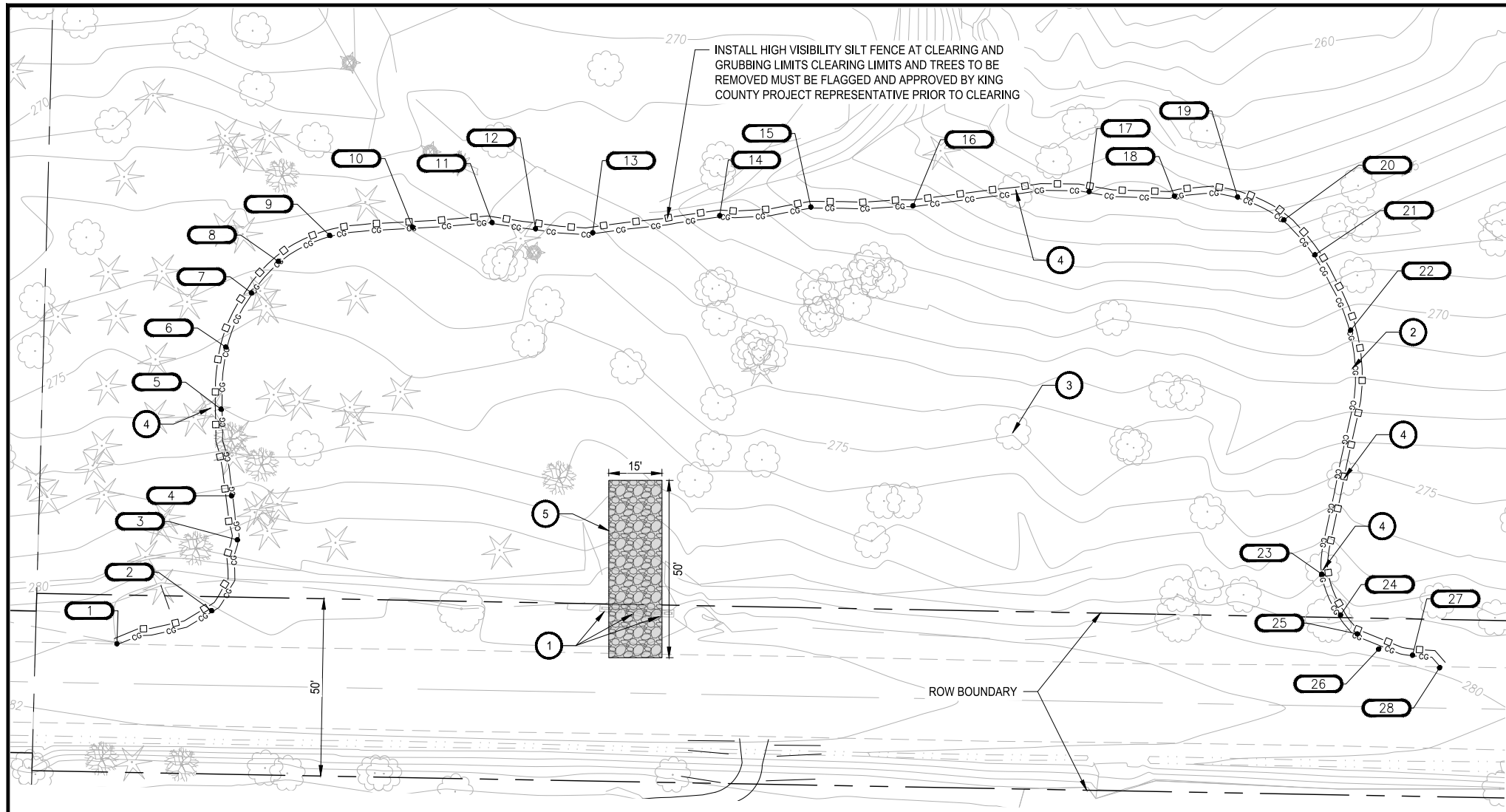
SHEET INDEX, KEY MAP, NOTES

SHEET
2
OF
12
SHEETS

G2

BID SET

811
KNOW WHAT'S BELOW.
CALL 2 BUSINESS DAYS
BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)



CONSTRUCTION NOTES:

- 1 REMOVE ECOLOGY BLOCKS AND DISPOSE
- 2 HIGH VISIBILITY SILT FENCE PER WSDOT STD PLAN 1-30.17-01
- 3 REMOVE ALL TREES INSIDE CLEARING LIMITS
- 4 PRESERVE TREE
- 5 STABILIZED CONSTRUCTION ENTRANCE PER WSDOT STD PLAN I-80.10-02

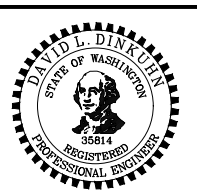
LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- - - - - MAJOR CONTOUR, EXISTING
- - - - - MINOR CONTOUR, EXISTING
- MAJOR CONTOUR, PROPOSED
- MINOR CONTOUR, PROPOSED
- HIGH VISIBILITY SILT FENCE
- cc-cc-cc- CLEARING AND GRUBBING LIMITS
- [Pattern Box] STABILIZED CONSTRUCTION ENTRANCE

POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	139469.18	1242749.40	282.107	CLEARING AND GRUBBING
2	139478.62	1242776.39	282.174	CLEARING AND GRUBBING
3	139498.69	1242783.65	279.605	CLEARING AND GRUBBING
4	139511.18	1242782.01	278.257	CLEARING AND GRUBBING
5	139535.37	1242779.05	275.979	CLEARING AND GRUBBING
6	139552.92	1242780.41	275.363	CLEARING AND GRUBBING
7	139568.20	1242787.61	274.704	CLEARING AND GRUBBING
8	139577.08	1242795.20	273.972	CLEARING AND GRUBBING
9	139584.35	1242809.66	273.626	CLEARING AND GRUBBING
10	139586.65	1242832.86	273.082	CLEARING AND GRUBBING
11	139587.97	1242855.29	272.240	CLEARING AND GRUBBING
12	139586.19	1242867.48	273.070	CLEARING AND GRUBBING
13	139585.07	1242883.52	273.562	CLEARING AND GRUBBING
14	139589.89	1242919.32	270.674	CLEARING AND GRUBBING
15	139592.34	1242945.10	269.079	CLEARING AND GRUBBING
16	139592.69	1242973.74	268.363	CLEARING AND GRUBBING
17	139596.68	1243023.48	265.363	CLEARING AND GRUBBING
18	139595.42	1243047.64	265.639	CLEARING AND GRUBBING
19	139595.16	1243065.44	265.102	CLEARING AND GRUBBING
20	139588.76	1243078.14	265.860	CLEARING AND GRUBBING
21	139578.95	1243086.87	267.739	CLEARING AND GRUBBING
22	139557.60	1243097.02	270.672	CLEARING AND GRUBBING
23	139488.89	1243089.39	278.013	CLEARING AND GRUBBING
24	139477.30	1243094.19	278.386	CLEARING AND GRUBBING
25	139472.17	1243099.39	279.476	CLEARING AND GRUBBING
26	139468.23	1243105.38	279.807	CLEARING AND GRUBBING
27	139465.97	1243114.61	279.834	CLEARING AND GRUBBING
28	139462.97	1243122.48	279.897	CLEARING AND GRUBBING

U:\PSD\Projects\Clients\1521\King\2023\1521-1521-343_Maury\OpenSpace\Ph\1095\scat\CADD\DWG\Parking_LatPS1621175-SPI.dwg

Maury Island Open Space		PROJECT MANAGER: D. DINKUHN				DESIGN TEAM	
PROJECT #	C01456C20	DATE	REV #	REVISION	BY	DATE	ARCH.
ISSUED	D. DINKUHN	04/22/20	1				N/A
APPROVED			2				STRUCT. ENG. N/A
REVIEWED			3				CIVIL ENG. D. DINKUHN
DRAWN	R.FIALA	03/27/20	4				LAND. ARCH. N/A



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SITE PREPARATION AND DEMOLITION

SHEET
 3
 OF
 12
 SHEETS
SP1

BID SET

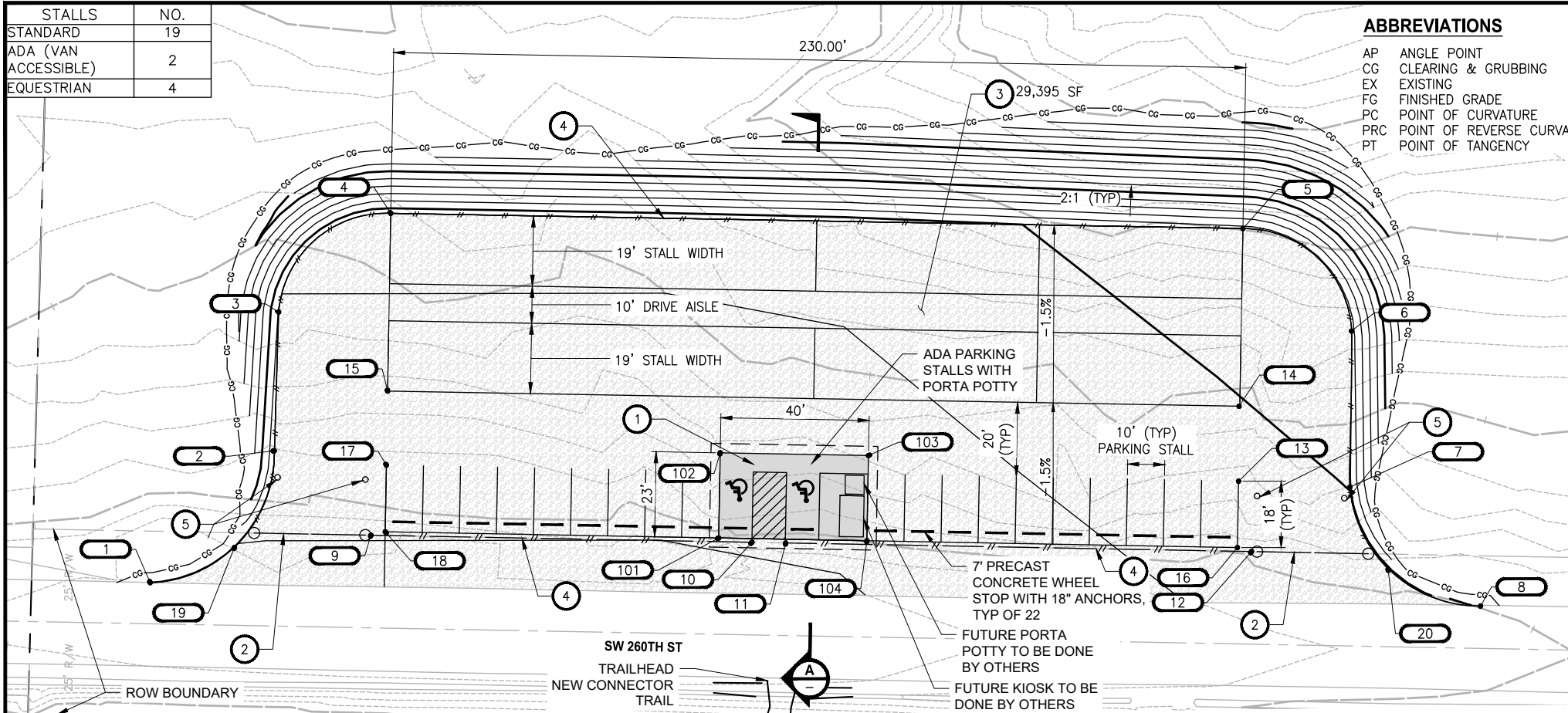


STALLS	NO.
STANDARD	19
ADA (VAN ACCESSIBLE)	2
EQUESTRIAN	4

ABBREVIATIONS

- AP ANGLE POINT
- CG CLEARING & GRUBBING
- EX EXISTING
- FG FINISHED GRADE
- PC POINT OF CURVATURE
- PRC POINT OF REVERSE CURVATURE
- PT POINT OF TANGENCY

POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	139469.15	1242758.44	282.127	PC
2	139504.76	1242791.92	281.625	PT
3	139542.23	1242793.09	281.074	PC
4	139568.88	1242823.35	280.674	PT
5	139564.77	1243053.32	279.319	PC
6	139537.10	1243082.63	279.337	PT
7	139494.93	1243082.17	279.986	PC
8	139462.86	1243117.44	279.974	PT
9	139481.97	1242818.00	281.978	START FENCE
10	139480.08	1242920.82	281.970	END FENCE
11	139479.88	1242929.93	281.917	START FENCE
12	139477.56	1243055.64	280.580	END FENCE
13	139496.56	1243052.13	280.343	PARKING STALL
14	139516.78	1243052.27	280.042	PARKING STALL
15	139520.89	1242822.52	281.394	PARKING STALL
16	139478.64	1243051.82	280.612	PARKING STALL
17	139500.90	1242822.19	281.694	PARKING STALL
18	139482.90	1242821.88	281.964	PARKING STALL
19	139478.69	1242781.17	281.938	START FENCE
20	139472.78	1243092.49	279.269	END FENCE



CONSTRUCTION NOTES:

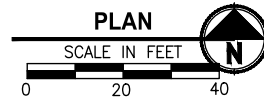
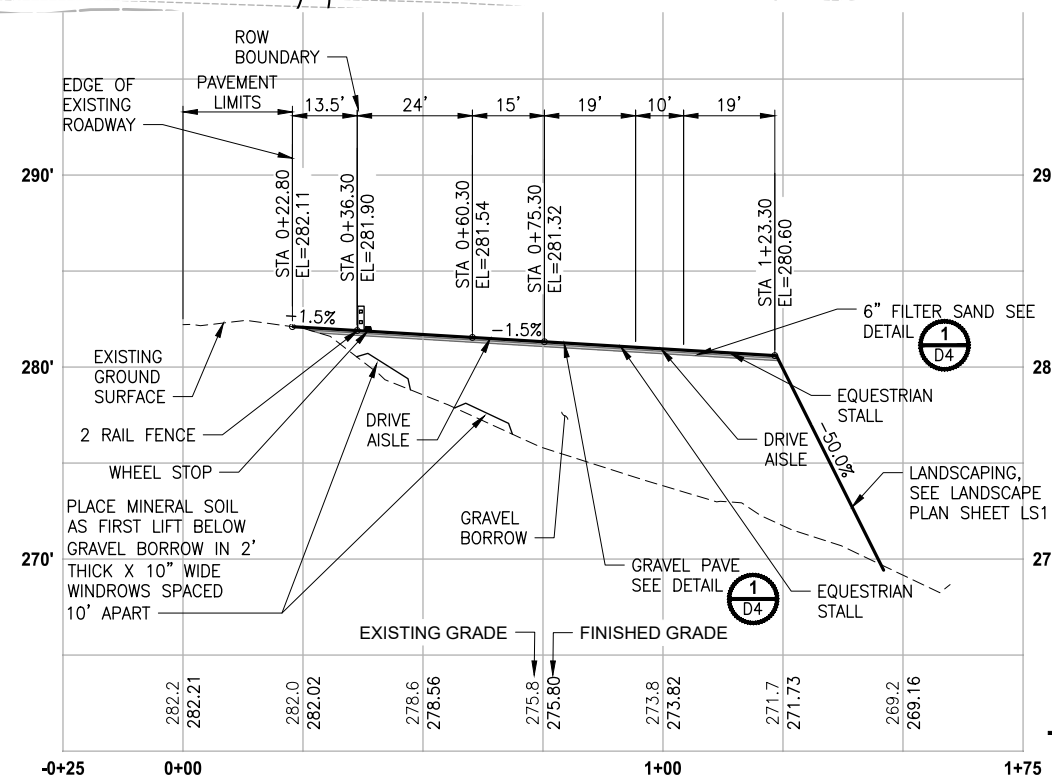
- 1 3" COMMERCIAL HMA OVER 4" CSTC
- 2 30' STEEL GATE, SEE DETAIL 1 D3
- 3 GRAVEL PAVE, SEE DETAIL 1 D4
- 4 2 RAIL FENCE, SEE DETAIL 1 D2
- 5 GATE ARM HOLDER, LOCATION APPROXIMATE, SEE DETAIL 2 D3

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- - - MAJOR CONTOUR, EXISTING
- - - MINOR CONTOUR, EXISTING
- MAJOR CONTOUR, PROPOSED
- MINOR CONTOUR, PROPOSED
- // — 2 RAIL FENCE,
- - - - - CLEARING AND GRUBBING LIMITS
- + + + + + WEED FABRIC AREA
- GRAVEL PAVE
- 3" COMMERCIAL HMA

SECTION A

HORIZ: 1" = 20'
VERT: 1" = 5'



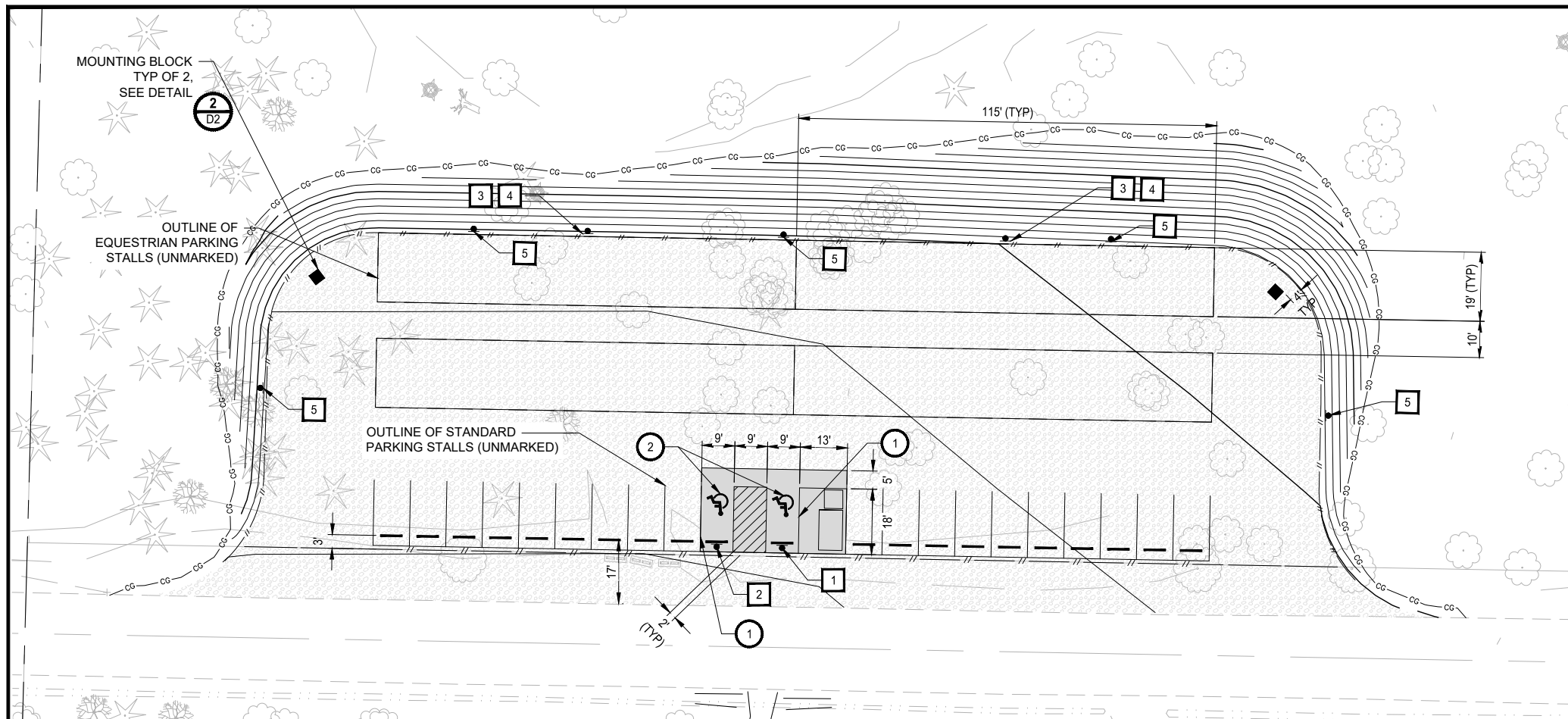
POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
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102	139504.23	1242912.27	281.602	FG
103	139503.48	1242952.26	281.433	FG
104	139480.49	1242951.85	281.778	FG

L:\P\Projects\1521-KingCo\2023-1521-343-MauryIslandOpenSpace\Ph1\98564-CADD\DWG\Parking LotC1.dwg

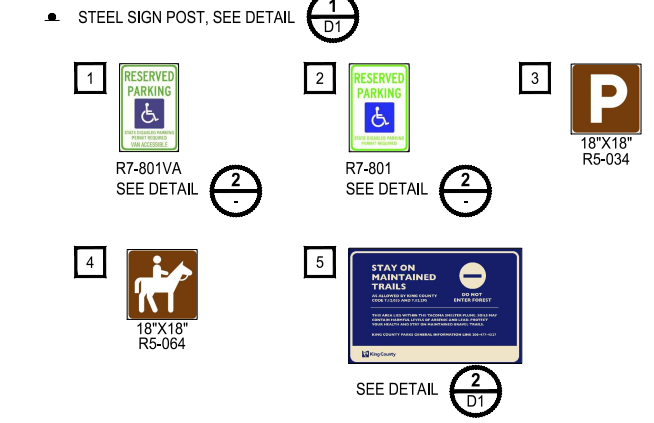
Maury Island Open Space		PROJECT MANAGER: D. DINKUHN		DESIGN TEAM			<p>King County Department of Natural Resources and Parks Parks and Recreation Division Capital Projects Section 201 S. Jackson St., Suite 700, Seattle, WA 98104 <i>Christie True, Director</i></p>	<p>King County Maury Island Open Space Remediation 7911 SW 260th Street Maury Island, WA 98070</p>	SHEET
PROJECT #	C01456C20	DATE	04/22/20	REV #	1				4
ISSUED	D. DINKUHN	DATE	04/22/20	REV #	2				OF
APPROVED		DATE		REV #	3				12
REVIEWED		DATE		REV #	4				SHEETS
DRAWN	R.FIALA	DATE	03/27/20	REV #		C1			

BID SET

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SIGNING LEGEND:



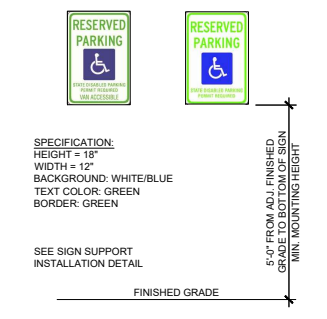
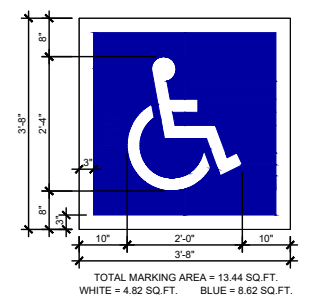
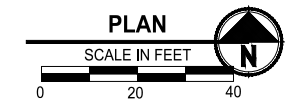
*NOTE: SIGN LOCATIONS ARE TO BE STAKED IN THE FIELD BY CONTRACTOR AND APPROVED BY KING COUNTY PROJECT REPRESENTATIVES PRIOR TO INSTALLATION

CONSTRUCTION NOTES:

- 1 4" WHITE PLASTIC LINES TYPE A
- 2 WHITE TYPE A PLASTIC ACCESS PARKING SPACE SYMBOL WITH BLUE BACKGROUND AND WHITE BORDER, SEE DETAIL

LEGEND

	APPROXIMATE PROPERTY BOUNDARY
	MAJOR CONTOUR, EXISTING
	MINOR CONTOUR, EXISTING
	MAJOR CONTOUR, PROPOSED
	MINOR CONTOUR, PROPOSED
	RAIL FENCE, SEE DETAIL 1 D2
	CLEARING AND GRUBBING LIMITS
	GRAVEL PAVE
	GRAVEL BORROW
	EXISTING GROUND
	3"-COMMERCIAL HMA



ACCESSIBLE PARKING SPACE SYMBOL
DETAIL 1
NO SCALE

ACCESSIBLE PARKING SIGNS
DETAIL 2
NO SCALE

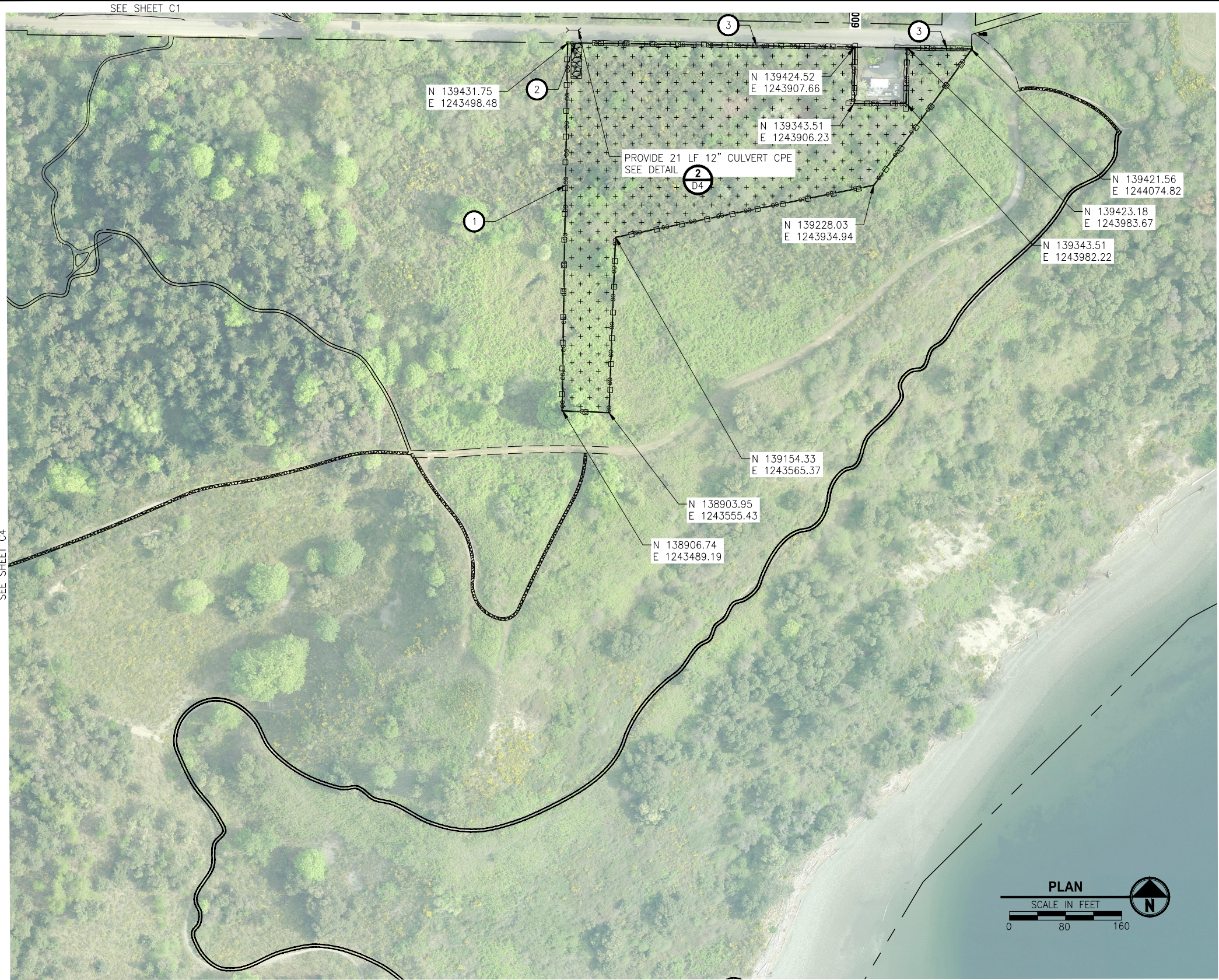
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BID SET

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Maury Island Open Space		PROJECT MANAGER: D. DINKUHN				DESIGN TEAM			King County Department of Natural Resources and Parks Parks and Recreation Division Capital Projects Section 201 S. Jackson St., Suite 700, Seattle, WA 98104 <i>Christie True, Director</i>	King County Maury Island Open Space Remediation 7911 SW 260th Street Maury Island, WA 98070	SHEET
PROJECT #	C01456C20	DATE	04/22/20	REV #	1	BY					5
ISSUED	D. DINKUHN	DATE	04/22/20	REV #	2	BY					OF
APPROVED		DATE		REV #	3	BY					12
REVIEWED		DATE		REV #	4	BY					SHEETS
DRAWN	R.FIALA	DATE	03/27/20	REV #		BY			C2		

STRIPING AND SIGNING PLAN



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- - - - -20 - - - MAJOR CONTOUR, EXISTING
- - - - - MINOR CONTOUR, EXISTING
- MAJOR CONTOUR, PROPOSED
- - - - - MINOR CONTOUR, PROPOSED
- + + + + + WEED FABRIC AREA
- CG — CG — CG — CLEARING AND GRUBBING LIMITS
- · — · — · — STRAW WATTLE
- □ — □ — □ — HIGH VISIBILITY FENCE
- ▨ STABILIZED CONSTRUCTION ENTRANCE

- CONSTRUCTION NOTES**
- ① HIGH VISIBILITY FENCE PER WSDOT STD PLAN I-10.10-01
 - ② STABILIZED CONSTRUCTION ENTRANCE PER WSDOT STD PLAN I-80.10-02
 - ③ STRAW WATTLE



CLEARING AND GRUBBING NOTE:

1. INVASIVE CLEARING AREA TO BE ACCESSED VIA ROADWAY SIDE. CONTRACTOR WILL ESTABLISH A TEMPORARY CONSTRUCTION ENTRANCE, WHICH WILL REMAIN IN PLACE TO BE USED LATER AS THE ACCESS POINT FOR PLANTING.
2. NO CONSTRUCTION EQUIPMENT WILL BE PERMITTED UNDER THE DRIP LINE. PRIOR TO CLEARING, THE CONTRACTOR WILL FLAG MATURE TREES TO RETAIN, WHICH WILL BE APPROVED BY KING COUNTY ENGINEERING.

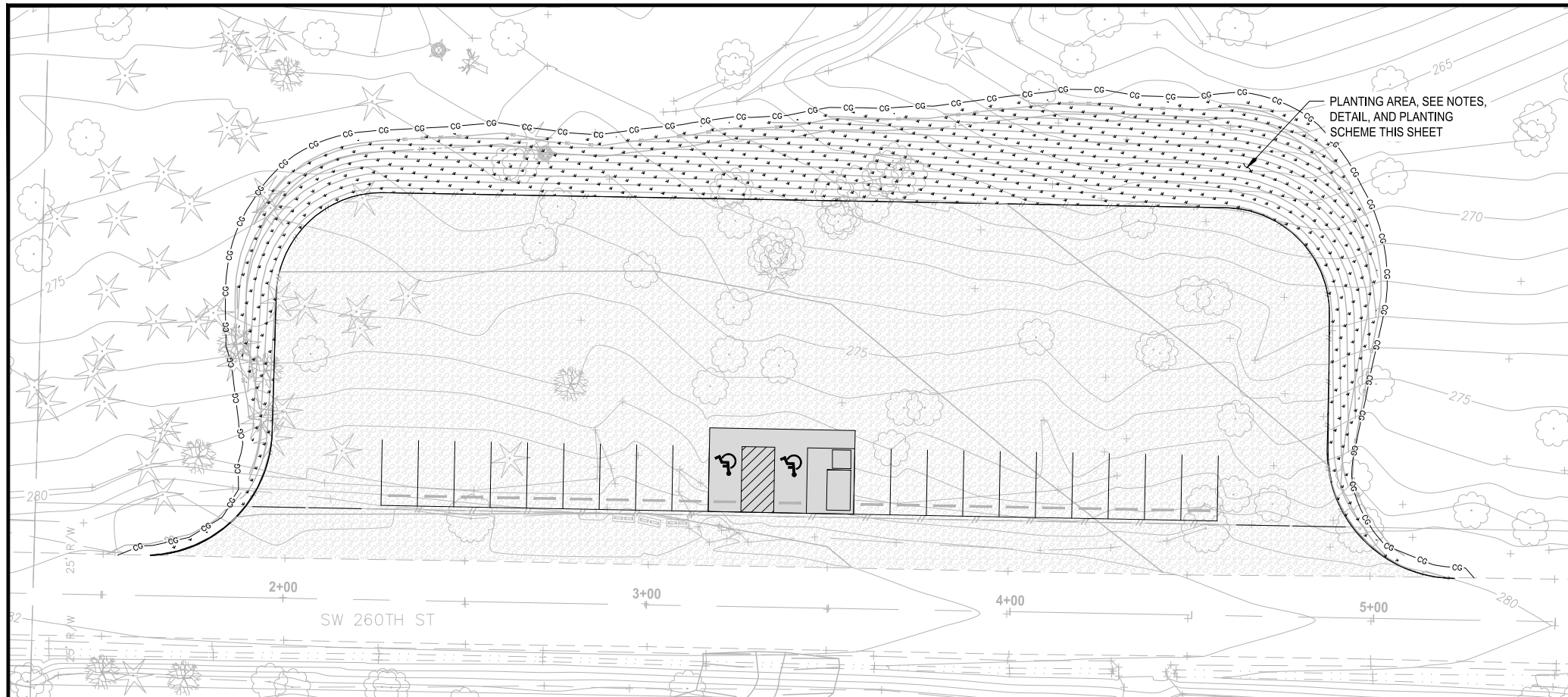


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ISSUED	D. DINKUHN	04/22/2020	①				STRUCT. ENG.				N/A	OF
APPROVED			②				CIVIL ENG.				D.DINKUHN	12
REVIEWED			③				LAND. ARCH.				N/A	SHEETS
DRAWN	A. MISIURAK	03/27/20	④							C3		

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NOTES:

1. REMOVE BLACKBERRIES (HANDWORK), IN PLANTING AREA. ALL BLACKBERRY CANES AND ROOT BALLS SHALL BE REMOVED. BLACKBERRIES AND OTHER VEGETATION REMOVED FROM PLANTING AREA SHALL BE REMOVED FROM SITE. CHIPPING OR MULCHING OF REMOVED VEGETATION IS NOT ALLOWED ONSITE.

PLANTING NOTES:

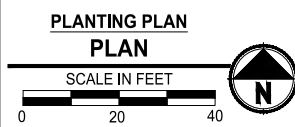
- SOIL PREPARATION**
1. LOOSEN ANY SOIL IN PLANTING AREAS COMPACTED BY CONSTRUCTION ACTIVITIES BY RIPPING OR TILLING THE AREA TO A DEPTH OF 24".
 2. PLACE AND ROTOTILL 3 INCHES OF COMPOSTED MATERIAL INTO THE TOP 5 INCHES OF SCARIFIED SOIL FOR A FINISHED DEPTH OF 12 INCHES OF UNCOMPACTED SOIL. RAKE AND REMOVE ROCKS LARGER THAN 2 INCHES IN DIAMETER. COMPOST THAT IS USED FOR SOIL AMENDMENT MUST MEET THE SPECIFICATIONS OF SPECIFICATION 1 COMPOST AS DESCRIBED IN THE CURRENT KING COUNTY SURFACE WATER DESIGN MANUAL.
 3. INSTALL JUTE NETTING OVER AMENDED SOIL AND STAKE IN PLACE PER DETAIL **2**.
 4. INSTALL PLANTS THROUGH JUTE NETTING BY CUTTING X IN FABRIC, REMOVING SOIL, INSTALLING PLANT, AND BACKFILLING WITH SOIL.
 5. WOOD CHIP MULCH - PLACE 3" LAYER OF WOOD CHIP MULCH OVER THE ENTIRE SURFACE OF THIS PLANTING AREA. COMMERCIAL GRADE BARK IS NOT TO BE USED WITHIN MITIGATION AREAS. WOOD CHIP MULCH MUST MEET THE SPECIFICATIONS OF ARBORIST'S WOOD CHIP MULCH AS DESCRIBED IN THE CURRENT KING COUNTY SURFACE WATER DESIGN MANUAL.

PLANT INSTALLATION

1. ALL DIMENSIONS FOR LISTED HEIGHT, LENGTH, AND CONTAINER SIZE ARE MINIMUM REQUIREMENTS.
2. ALL PLANTS SHALL BE NURSERY GROWN A MINIMUM OF 1 YEAR. PLANT MATERIAL LIST TO BE SUPPLIED BY COMMERCIAL NURSERIES THAT SPECIALIZE IN PLANTS NATIVE TO THE PACIFIC NORTHWEST.
3. PLANT SUBSTITUTIONS ARE SUBJECT TO APPROVAL BY THE PROJECT REPRESENTATIVE. THE SUBSTITUTION REQUEST MUST BE MADE IN WRITING.
4. PLANTING SHALL TAKE PLACE DURING THE DORMANT SEASON (OCTOBER 1ST TO MARCH 1ST). PLANTING MAY BE ALLOWED OTHER TIMES AFTER REVIEW AND WRITTEN APPROVAL BY PROJECT REPRESENTATIVE.
5. EXISTING AREAS DISTURBED BY CONSTRUCTION ACTIVITIES AND NOT SHOWN TO BE RE-VEGETATED ON THESE PLANS SHALL BE RESTORED AND SEED. THE CONTRACTOR SHALL REPLANT ANY NATIVE WOODY VEGETATION DISTURBED DURING CONSTRUCTION WITH A SPECIES PROVIDED IN THE PLANT MATERIALS LIST AT A RATIO OF 1:1.
6. IMMEDIATELY SATURATE THE PLANTING ZONE AFTER PLANTING TO RELIEVE CAPILLARY STRESS.
7. AFTER INSTALLATION, TO CONFIRM THE PROJECT HAS BEEN INSTALLED PER THE PLANTING PLAN, A LETTER OF COMPLIANCE WILL BE PREPARED BY A PROJECT REPRESENTATIVE FOR SUBMITTAL TO THE COUNTY. SHOULD ANY DISCREPANCIES OCCUR FROM THE PLANTING PLAN, AN AS-BUILT REPORT AND PLAN SHALL BE PREPARED AND SUBMITTED TO THE COUNTY. THE AS-BUILT SHALL SHOW ALL PLANT INSTALLATION. PROJECT APPROVAL SHALL BE SUBJECT TO THE COUNTY INSPECTION OF THE AREA AFTER RECEIPT OF THE COMPLIANCE REPORT AND AS-BUILT PLAN.

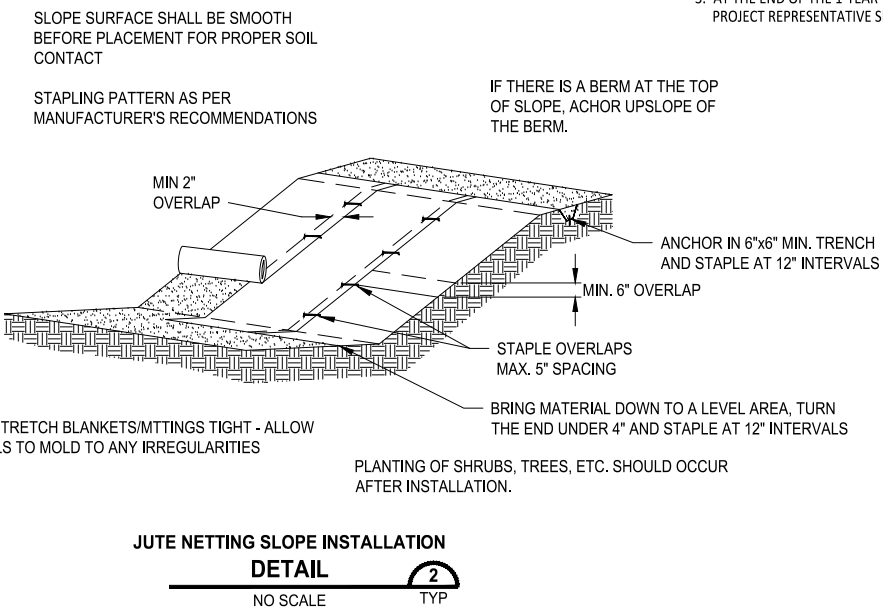
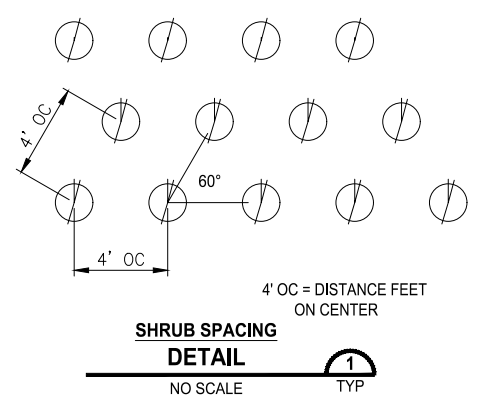
PLANT ESTABLISHMENT

1. THE CONTRACTOR SHALL WARRANT ALL PLANTS THROUGH THE END OF THE INITIAL 1 YEAR CONTRACTOR MAINTENANCE PERIOD AND ACCEPTANCE OF THE PLANT INSTALLATION BY THE PROJECT REPRESENTATIVE.
2. MAINTENANCE TASKS REQUIRED OVER THE INITIAL YEAR 1 CONTRACTOR MAINTENANCE PERIOD INCLUDES WATERING; WEEDING, ESPECIALLY NON-NATIVE, INVASIVE SPECIES; REPLANTING ANY PLANT THAT HAS SETTLED SIGNIFICANTLY, WERE INSTALLED TOO SHALLOW, OR TILTED; PRUNING; REPLACING ALL DEAD, DYING, AND DISEASED PLANTS AS DETERMINED BY THE PROJECT REPRESENTATIVE; AND ANY OTHER MEASURES REQUIRED FOR NOT ONLY PLANT SURVIVAL BUT THE ULTIMATE SUCCESS OF THE MITIGATION SITE.
THERE IS NO SOURCE OF WATER ON SITE. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPLEMENTAL WATERING VIA A 200' HOSE AND CONNECTION TO A WATER TRUCK AS NEEDED TO ENSURE PLANT SURVIVAL.
3. AT THE END OF THE 1-YEAR WARRANTY AND MAINTENANCE PERIOD, ANOTHER FIELD MEETING WITH THE CONTRACTOR AND PROJECT REPRESENTATIVE SHALL OCCUR TO DETERMINE IF ANY WARRANTY ISSUES NEED TO BE ADDRESSED.



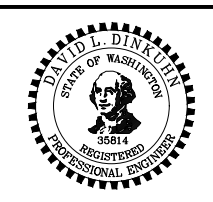
PLANTING SCHEDULE:

SCIENTIFIC NAME	COMMON NAME	AREA	QTY	SIZE & CONDITION	SPACING
PLANTING AREA SHRUBS					
ROSA NUTKANA	NOOKTA ROSE	8,822 SF	552	1 GAL	4' OC



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Maury Island Open Space		PROJECT MANAGER: D. DINKUHN				DESIGN TEAM	
PROJECT #	C01456C20	DATE	REV #	REVISION	BY	DATE	ARCH.
ISSUED	D. DINKUHN	04/22/2020	1				N/A
APPROVED			2				STRUCT. ENG. N/A
REVIEWED			3				CIVIL ENG. D. DINKUHN
DRAWN	R.FIALA	03/27/20	4				LAND. ARCH. N/A



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 Parks and Recreation Division
 Capital Projects Section
 201 S. Jackson St., Suite 700, Seattle, WA 98104
Christie True, Director

King County
 Maury Island Open Space Remediation
 7911 SW 260th Street
 Maury Island, WA 98070

PARKING LOT PLANTING PLAN

SHEET
7
OF
12
SHEETS

LS1

BID SET

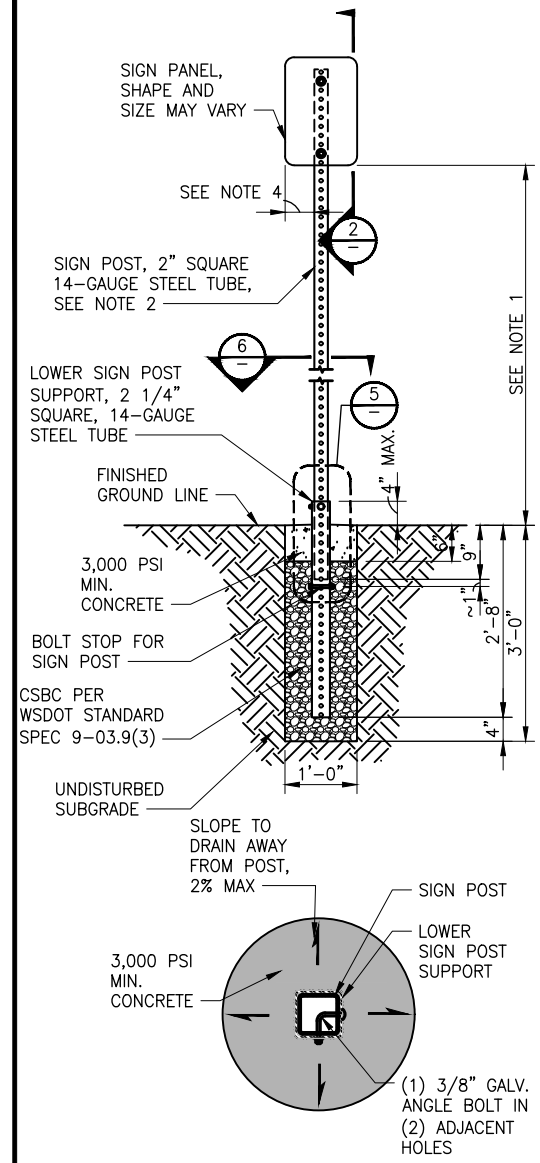
811
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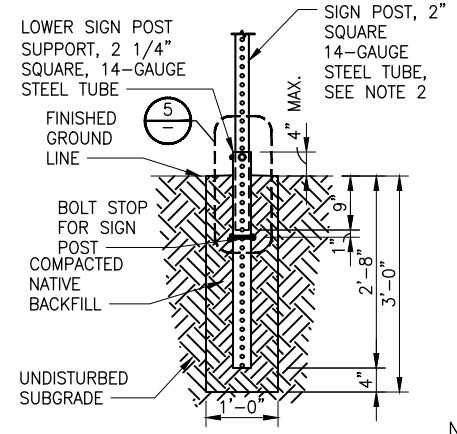
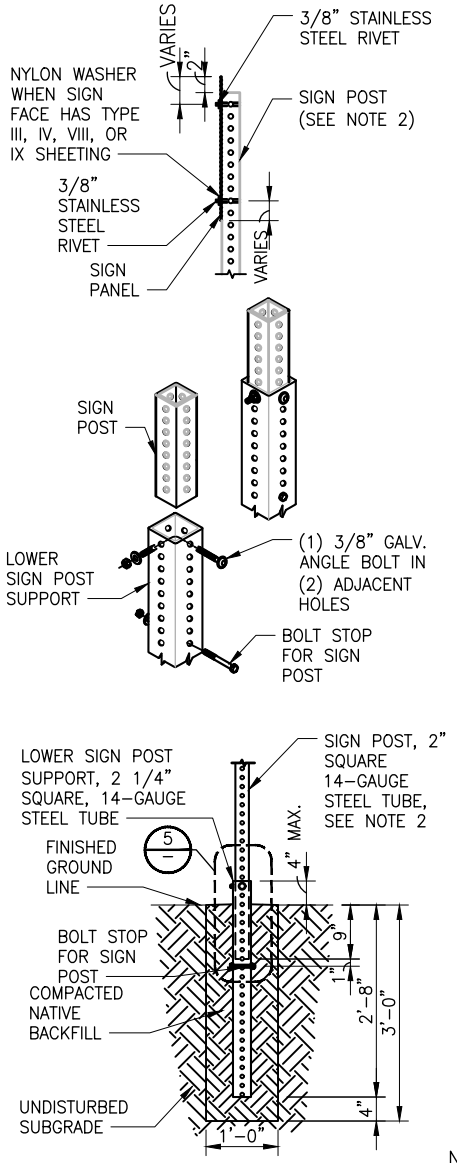
18"x12"
FOREST AREA SIGN
DETAIL
NO SCALE TYP

SIGN NOTES:

1. SIGN MATERIAL SHALL BE 18" X 12" OR 12"x18" 4MM ALUMINUM COMPOSITE MATERIAL (ACM) WITH HIGH INTENSITY PRISMATIC SIGN FINISH AND ANTI-GRAFFITI COATING.
2. SIGNS SHALL BE COATED IN AVERY OL-100 ANTI-GRAFFITI PM 01000PMA1 AND 3M PROTECTIVE OVERLAY FILM 1150 TRANSPARENT OR APPROVED EQUALS.
3. SIGN COLOR BACKGROUND SHALL BE PANTONE MATCHING SYSTEM (PMS) COLOR KING BLUE 049. SIGN TEXT SHALL BE PMS COLOR BEIGE #A8220-0.

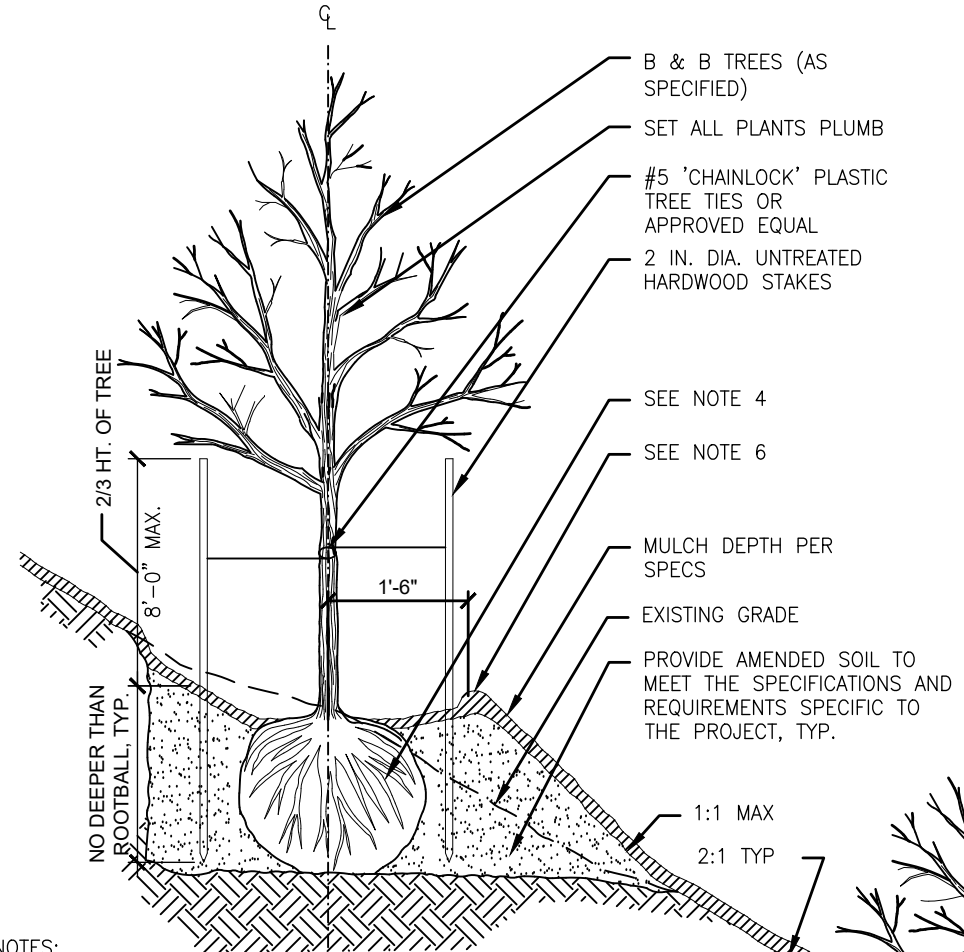


STEEL SIGN POST
DETAIL
NO SCALE TYP



SIGN POST NOTES:

1. USE 7 FOOT MIN. MOUNTING HEIGHT FOR TRAFFIC SIGNS. USE 5 FOOT MIN. MOUNTING HEIGHT FOR TRAIL SIGNS.
2. PERFORATED SQUARE STEEL POST SHALL MEET REQUIREMENTS OF STANDARD SPECIFICATION 9-06.
3. USE ONLY BASE CONNECTION HARDWARE THAT MEET THE REQUIREMENTS OF STANDARD SPECIFICATIONS 9-06 AND 9-28.
4. USE OF CONCRETE FOOTING SIGN SUPPORT (DETAIL 1) OR NATIVE BACKFILL SIGN SUPPORT (DETAIL 4) PER KC PARKS ENGINEER'S DECISION.
5. LATERAL CLEARANCE DISTANCES FOR TRAIL AND TRAFFIC SIGNS SHALL BE PER KC PARKS STANDARDS, MUTCD OR WSDOT REQUIREMENTS, LOCAL JURISDICTION, OR AS APPROVED BY THE ENGINEER.
6. REFLECTOR ADDED TO SIGN POST PER KC PARKS ENGINEER'S DETERMINATION.
7. DIMENSIONS FOR THE PARTS USED TO ASSEMBLE THE BASE CONNECTIONS ARE INTENTIONALLY NOT SHOWN. BASE CONNECTIONS ARE PATENTED, MANUFACTURED PRODUCTS THAT ARE IN COMPLIANCE WITH NCHRP 350 CRASH TEST CRITERIA. BASE CONNECTION DETAILS ARE SHOWN ONLY TO ILLUSTRATE ASSEMBLY OF PARTS.



TREE AND SHRUB PLANTING ON SLOPE
DETAIL
NO SCALE TYP

NOTES:

1. ALLOW SOME SLACK ON STAKING TIES. ADD ADDITIONAL TIES WHERE NECESSARY. REMOVE STAKES AFTER ONE YEAR.
2. STAKE ALL TREES OVER 5' HT; THREE (3) STAKES REQUIRED FOR TREES WITH 3 IN. CALIPER OR GREATER.
3. SEE DWG 1/LA-1-1 + 2/LA-1-1 FOR TYPICAL STAKING DETAIL.
4. SLOPES STEEPER THAN 2:1 MAY REQUIRE AN APPROVED EMBANKMENT STABILIZATION SYSTEM TO CREATE A LEVEL TREE PIT.
5. REMOVE ALL WIRE, STRINGS, AND BURLAP FROM ROOTBALL OR REMOVE PLANT FROM CONTAINER.
6. PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND THE ROOT BALL IN 6 INCH LIFTS. DO NOT OVER COMPACT. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED, POUR WATER AROUND THE ROOT BALL TO SETTLE THE SOIL.
7. 4" HIGH X 8" WIDE ROUND-TOPPED SOIL BERM, CENTERED ON DOWNHILL SIDE OF ROOTBALL. BERM SHALL BEGIN AT ROOTBALL PERIPHERY.
3. DO NOT BURY ROOT CROWN. TOP OF ROOTBALL SHALL MATCH GRADE AT WHICH THE TREE GREW AT THE NURSERY.

BID SET

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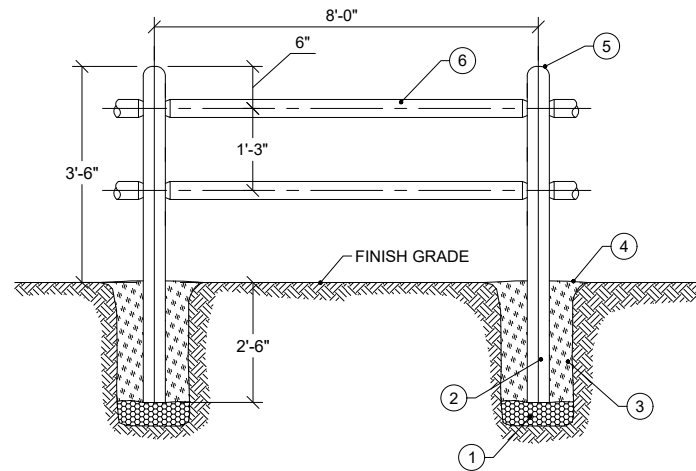
Maury Island Open Space		PROJECT MANAGER: D. DINKUHN				DESIGN TEAM	
PROJECT #	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A
ISSUED	D. DINKUHN	04/22/2020	1			STRUCT. ENG.	N/A
APPROVED			2			CIVIL ENG.	D.DINKUHN
REVIEWED			3			LAND. ARCH.	N/A
DRAWN	R.FIALA	03/27/20	4				



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DETAILS

SHEET
8
OF
12
SHEETS
D1

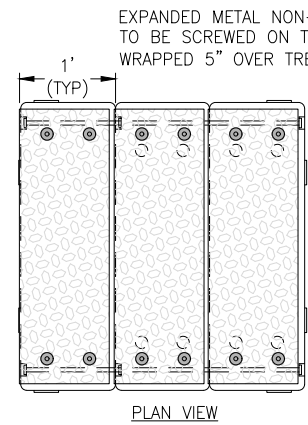


**2 RAIL FENCE
DETAIL**

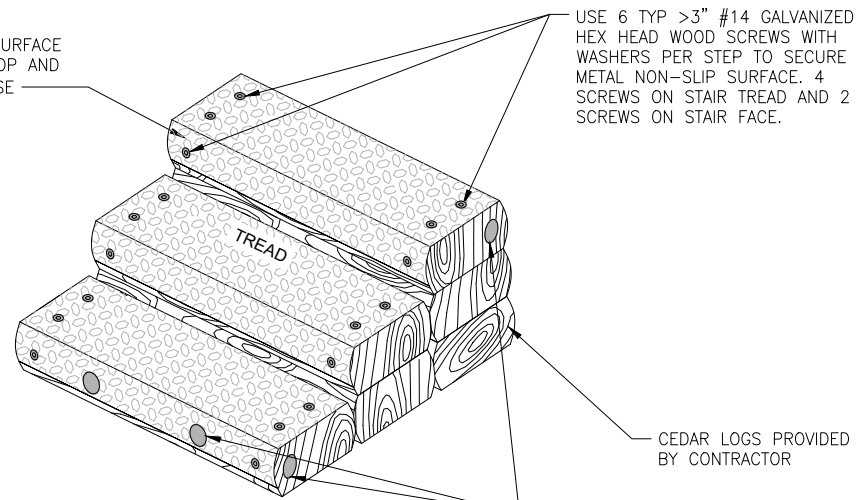
NO SCALE

CONSTRUCTION NOTES:

- ① SET POST ON CRUSHED SURFACING BASE COURSE, COMPACTED TO 95% DRY DENSITY
- ② TREATED FIR POST SET PLUM AND AT PROPER GRADE AND ALIGNMENT
- ③ BACKFILL & COMPACT WITH NATIVE SOIL TO 95% DRY DENSITY
- ④ SLOPE AWAY FROM POST FOR DRAINAGE
- ⑤ LINE POST SHALL BE 5.5"Ø WITH END AND CORNER POST 6.5"Ø
- ⑥ RAILS SHALL BE 4.5"Ø



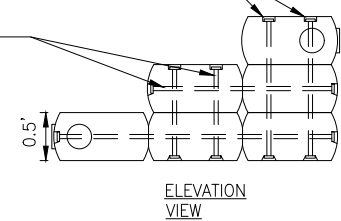
EXPANDED METAL NON-SLIP SURFACE TO BE SCREWED ON TREAD TOP AND WRAPPED 5" OVER TREAD NOSE



USE 6 TYP >3" #14 GALVANIZED HEX HEAD WOOD SCREWS WITH WASHERS PER STEP TO SECURE METAL NON-SLIP SURFACE. 4 SCREWS ON STAIR TREAD AND 2 SCREWS ON STAIR FACE.

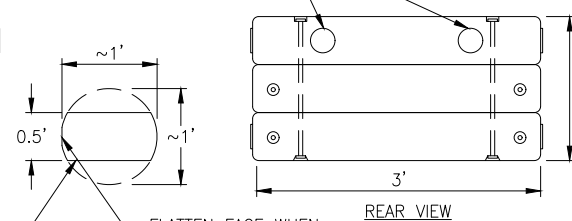
COUNTER SINK NUT AND FILL HOLE WITH LIGHT COLORED EXTERIOR GRADE EPOXY WOOD FILLER (TYP)

3/4" SS READY ROD W/ SS NUTS & WASHERS (TYP)



ELEVATION VIEW

MILL ~1' DIAMETER CEDAR LOGS TO 0.5' THICKNESS AND REMOVE BARK



REAR VIEW

REFLECTORS

FLATTEN FACE WHEN BUTTING UP TO OTHER LOGS


**LOG-EQUESTRIAN MOUNTING BLOCK
DETAIL**

NO SCALE

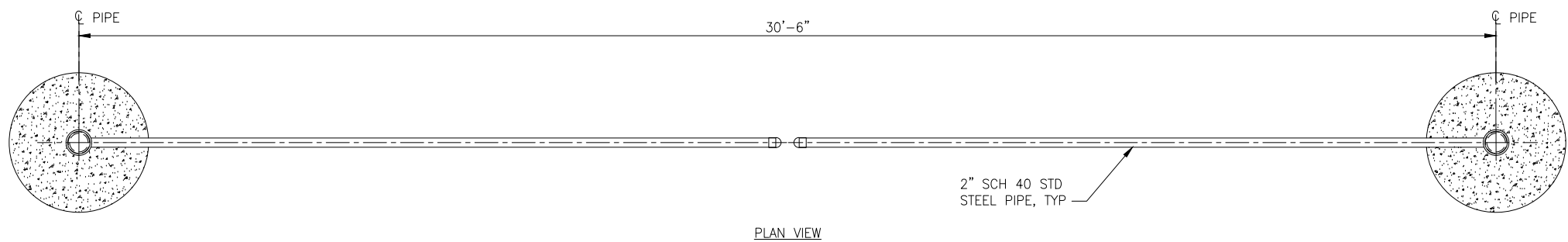


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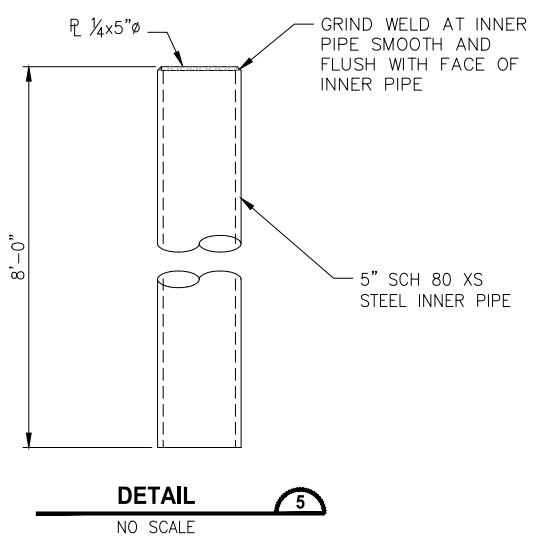
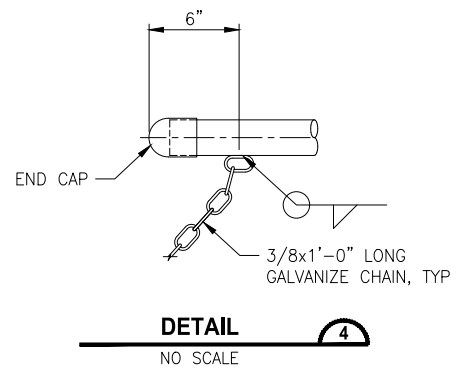
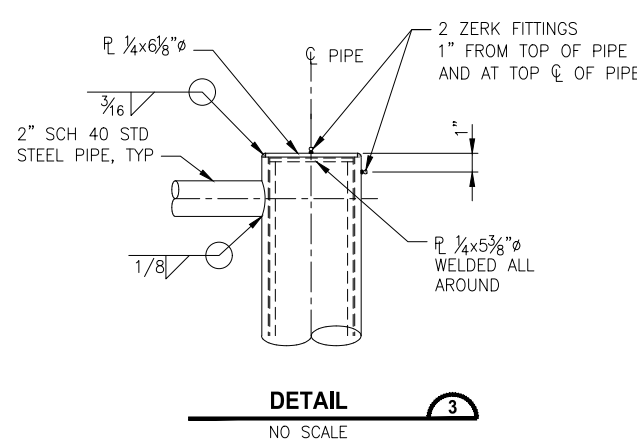
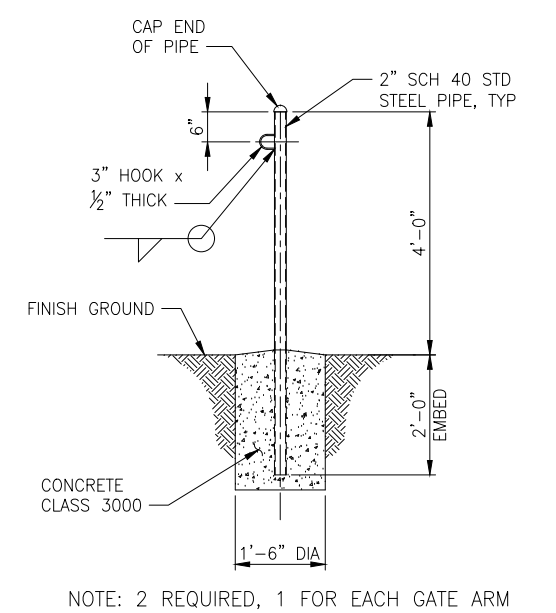
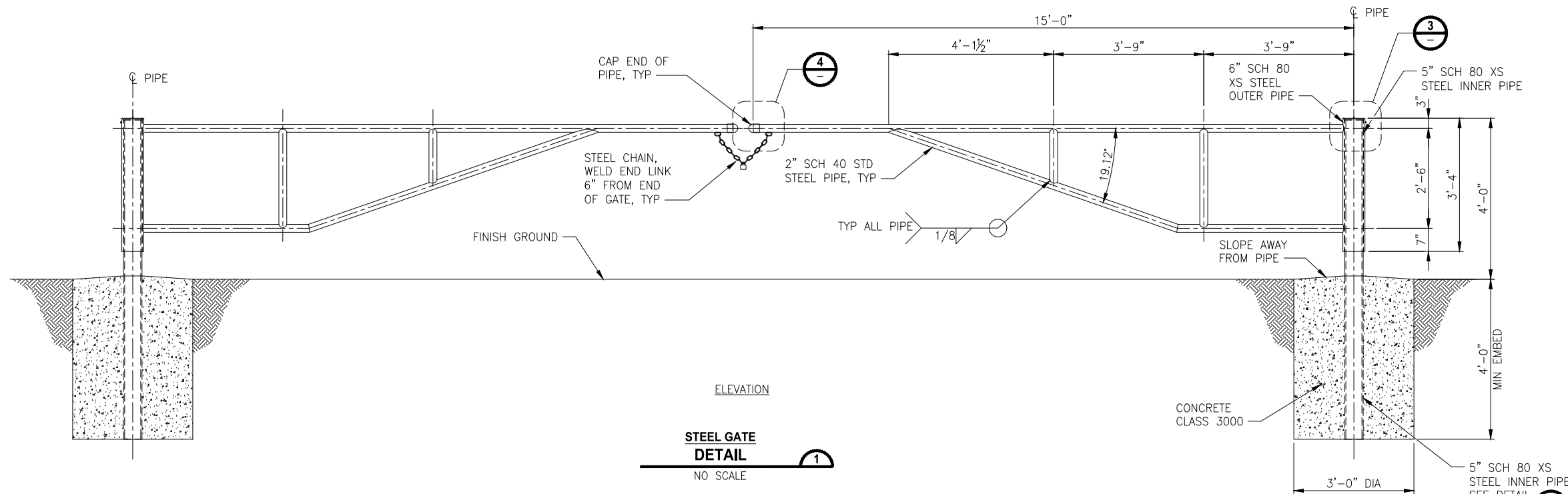
BID SET

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APPROVED			②				CIVIL ENG.			D. DINKUHN	12
REVIEWED			③				LAND. ARCH.			N/A	SHEETS
DRAWN	R. FIALA	03/27/20	④							D2	

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- GATE NOTES:**
1. GRIND/DEBURR ALL SHARP EDGES AND PROTRUSIONS.
 2. ALL METAL SURFACES TO BE GALVANIZED AND POWDER COATED GREEN.
 3. PROVIDE 1/2" TO 3/4" DIAMETER HOLES FOR GALVANIZING RELIEF.



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DRAWN	R.FIALA	03/27/20	④						

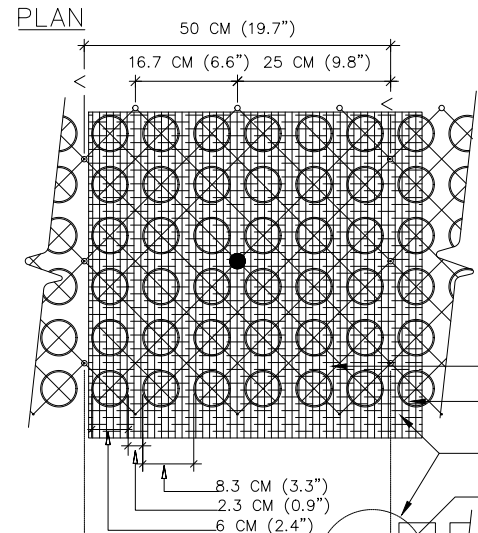


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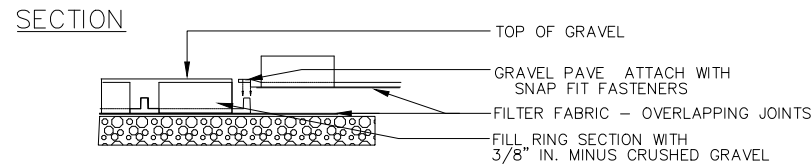
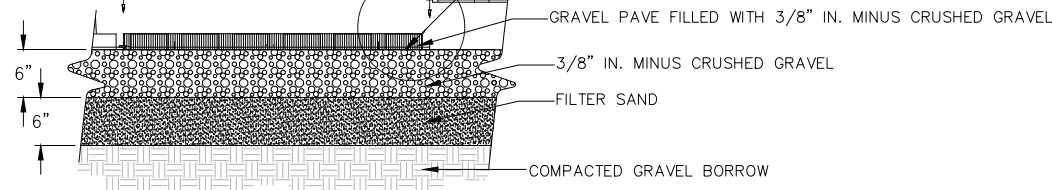
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SHEET
10
OF
12
SHEETS
D3

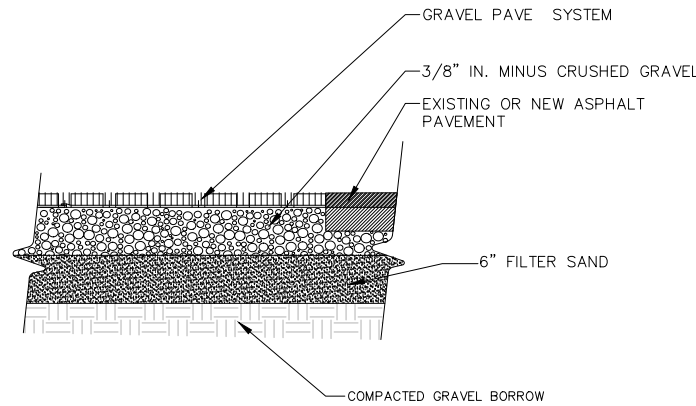
DETAILS



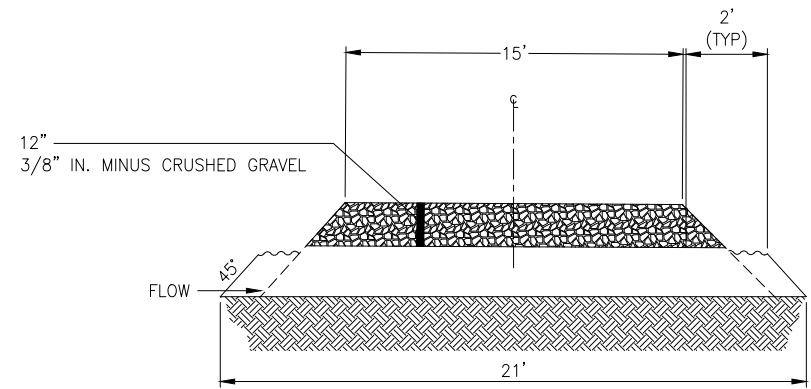
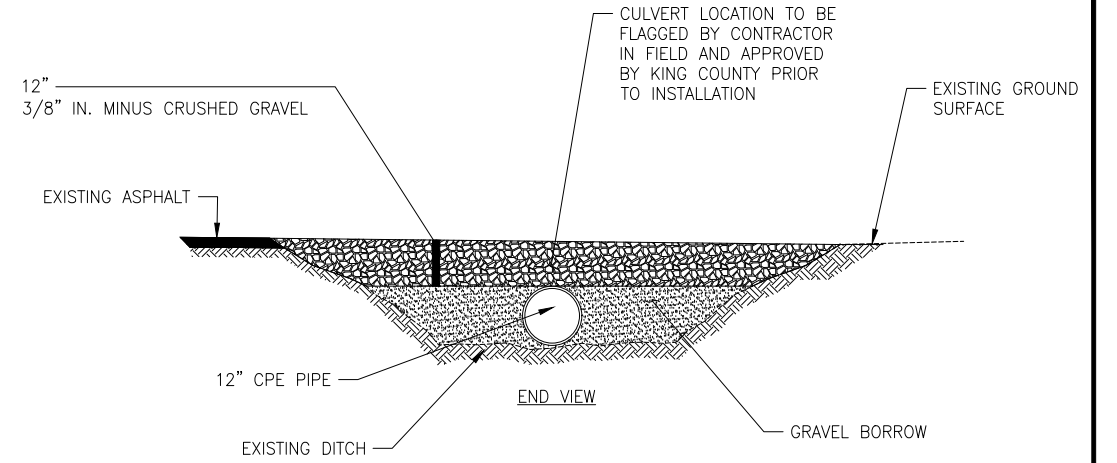
SPECIFICATIONS
 UNITS
 UNIT SIZE - 50 CM X 50 CM X 2.5 CM OR 1 M X 1 M X 2.5 CM
 (20" X 20" X 1" OR 40" X 40" X 1")
 AVAILABLE IN 9 STANDARD ROLL SIZES
 UNIT WEIGHT - 538 GRAMS (19 OZ.)
 OR 2.2 KG (4.8 POUNDS)
 STRENGTH - 1121 KG/CM² (15,940 PSI)
 COLOR - BLACK (STANDARD)
 RESIN - 100% POST-CONSUMER
 RECYCLED HDPE
 FABRIC
 WEIGHT - 1.4 TO 1.7 OZ./SY (47-58 GM/M²)
 TENSILE - 120 LB/FT² (585 KG/M²)
 FLOW - 275 GAL/MIN/SF (11,200 L/MIN/M²)



TYPICAL GRAVEL PAVE DETAIL
 DETAIL 1
 NO SCALE



GRAVEL PAVE AT ASPHALT EDGE
 DETAIL 3
 NO SCALE



ELEVATION VIEW

12" CULVERT DETAIL
 DETAIL 2
 NO SCALE TYP

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Maury Island Open Space		PROJECT MANAGER: D. DINKUHN				DESIGN TEAM	
PROJECT #	C01456C20	DATE	REV #	REVISION	BY	DATE	ARCH.
ISSUED	D. DINKUHN	04/22/2020	①				N/A
APPROVED			②				STRUCT. ENG. N/A
REVIEWED			③				CIVIL ENG. D.DINKUHN
DRAWN	R.FIALA	03/27/20	④				LAND. ARCH. N/A



King County
 Department of Natural Resources and Parks
 Parks and Recreation Division
 Capital Projects Section
 201 S. Jackson St., Suite 700, Seattle, WA 98104
 Christie True, Director

King County
 Maury Island Open Space Remediation
 7911 SW 260th Street
 Maury Island, WA 98070

DETAILS

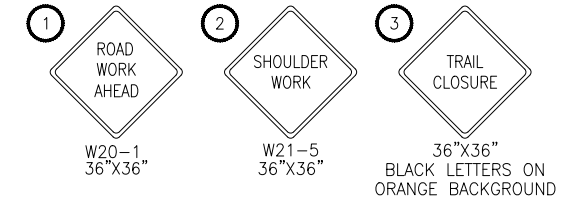
SHEET
 11
 OF
 12
 SHEETS
D4

BID SET

811
 KNOW WHAT'S BELOW.
 CALL 2 BUSINESS DAYS
 BEFORE YOU DIG.
 (UTILITY LOCATIONS ARE APPROX.)



SIGN KEY:



SYMBOL LEGEND:



TRAFFIC CONTROL NOTES:

1. TRAFFIC CONTROL SHOWN IS FOR SHOULDER WORK ONLY AND DOES NOT INCLUDE LANE CLOSURE. CONTRACTOR-PROPOSED LANE CLOSURES SHALL BE APPROVED BY THE KING COUNTY PROJECT REPRESENTATIVE AND SHALL BE IN ACCORDANCE WITH APPROVED TRAFFIC CONTROL PLAN, MEETING THE MINIMUM REQUIREMENTS OF WSDOT STD PLAN TC1 ONE LANE TWO-WAY TRAFFIC CONTROL WITH FLAGGERS.
2. TRAIL CLOSURE SIGNS SHALL BE PLACED AT BEGINNING AND END OF CLOSED TRAIL SEGMENTS IN ACCORDANCE WITH APPROVED TRAFFIC CONTROL PLAN.



KNOW WHAT'S BELOW.
CALL 2 BUSINESS DAYS
BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

BID SET

U:\PSO\Projects\Clients\1521-KingCo\233-1521-343-MauryIsOpenSpace\PH\088\svcs\CADD\DWG\Parking_La\PS 1521175-T1.dwg

Maury Island Open Space			PROJECT MANAGER: D. DINKUHN				DESIGN TEAM			King County Department of Natural Resources and Parks Parks and Recreation Division Capital Projects Section 201 S. Jackson St., Suite 700, Seattle, WA 98104 <i>Christie True, Director</i>	King County Maury Island Open Space Remediation 7911 SW 260th Street Maury Island, WA 98070	SHEET
PROJECT #	C01456C20	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A				12
ISSUED	D. DINKUHN	04/22/2020	①				STRUCT. ENG.	N/A				OF
APPROVED			②				CIVIL ENG.	D.DINKUHN				12
REVIEWED			③				LAND. ARCH.	N/A				SHEETS
DRAWN	R.FIALA	03/27/20	④							T1		

TEMPORARY TRAFFIC CONTROL PLAN