PIONEER
Engineering & Environmental Services, LLC

2753 West 31st Street | Chicago, IL 60608
Tel: 773-722-9200 | Fax: 773-722-9201 | pioneerEES.com

Transmitted via Electronic Mail

July 14, 2025

Ms. Tena Seeds
Washington State Department of Ecology
Toxics Cleanup Program
15700 Dayton Ave N., Shoreline, WA 98133

RE: Quarterly Progress Report: April 1 through June 30, 2025
Time Oil Bulk Terminal Site, Cleanup Site ID #14604
Prospective Purchaser Consent Decree No. 20-2-15215-3 SEA

Dear Ms. Seeds:

Pioneer Engineering & Environmental Services, LLC on behalf of TOC Seattle Terminal 1, LLC submits the attached Quarterly Progress Report for the Time Oil Bulk Terminal Site per Section XII of the Prospective Purchaser Consent Decree between the Washington State Department of Ecology and TOC Seattle Terminal 1, LLC. The quarterly progress report consists of a brief narrative summary of notable activities that occurred during the reporting period and that are anticipated for the upcoming reporting period.

If you have any questions about this report, please contact me at 773-435-3725.

Sincerely,

Kim Hempel

Kim Hempel
Project Coordinator
Pioneer Engineering & Environmental Services, LLC

Distribution List:
Doug Ciserella and Mike Ciserella, TOC Seattle Terminal 1, LLC
Alexandra Kleeman, Hillis Clark Martin & Peterson P.S.
Jamie Stevens, CRETE Consulting
Kristin Anderson, Floyd|Snider

TIME OIL BULK TERMINAL SITE
PROSPECTIVE PURCHASER CONSENT DECREE NO. 20-2-15215-3 SEA
QUARTERLY PROGRESS REPORT: APRIL 1 THROUGH JUNE 30, 2025

This report has been prepared in accordance with the requirements of the Time Oil Bulk Terminal Site Prospective Purchaser Consent Decree (PPCD) between the Washington State Department of Ecology (Ecology) and TOC Seattle Terminal 1, LLC. This progress report provides details on the following: 1) all on site activities; 2) any deviations from required tasks; 3) anticipated problems in meeting schedule or objectives and associated solutions 4) sampling, testing, or other data received; 5) work planned for the upcoming 3-month period; and, 6) deliverables planned for the upcoming 3-month period.

Summary of On-Site Activities Performed During the Reporting Period (PPCD Section XII.A)

- A visual check of the site was conducted on June 3 and June 5, 2025. All interim surfaces on remaining portions of the Site remain in good condition, with the exception of a few areas on the Swell Management Area (SMA) where the geotextile fabric was no longer secured due to high winds and/or Lot F construction activities. The geotextile fabric on the SMA was re-secured on June 3, 2025. No other concerns were noted during the site visits.
- Construction of the self-storage facility on Lot F was substantially completed in May 2025; see below for more information regarding Lot F construction activities.
- CRETE personnel performed vapor intrusion sampling for the building on Lot F on June 3, 2025, in accordance with the Ecology-approved Vapor Intrusion (VI) Plan, and additional Ecology email concurrence dated May 23, 2025.
- Floyd|Snider (F|S) personnel collected the tenth round of post-remediation groundwater samples on June 5, 2025 (Q2 2025) per the approved Groundwater Monitoring Plan (GMP) and additional Ecology email concurrence dated April 11 and May 7, 2025. Monitoring included continued groundwater collection at contingency well 01MW107; and additional sampling at 01MW15 and 01MW58R based on elevated trichloroethene (TCE) in upgradient portions of the ASKO property and on the BNSF Property per Ecology's request.
- Water samples were collected from the ASKO Property permeable reactive barrier vault and gravity well on June 5, 2025 for operation and maintenance (O&M) assessment purposes

Summary of Construction Activities at Lot F

Construction activities at Lot F (2707 West Commodore Way Project) are substantially complete; some additional minor interior work remains with all work expected to be completed in July 2025. This progress report provides documentation of the construction activities per the June 8, 2023 Notification of Construction Activities (referenced as the "Notice of Construction") and the October 5, 2022 Soil and Remedial Elements Management Plan (SREMP; Appendix B of the February 10, 2023 Long Term Compliance Monitoring Plan, prepared by CRETE Consulting [CRETE]).

CRETE provided construction oversight for earthwork activities associated with the InSite Property Group (InSite) self storage building construction at Lot F. All earthwork construction oversight was completed per the Notice of Construction and the SREMP. The majority of subsurface earthwork construction activities were completed from December 2023 to January 2025. Earthwork activities included grading of existing surfaces, excavation associated with site utilities and foundation footings, installation of vapor barriers, export of overburden soils, and the import of additional material to bring the site to final grade. All earthwork grading was completed per the Notice of Construction Grading Plan. Per the Grading Plan, all soils within the footprint of Area 1 (the Swell Management Area) remained in Area 1. The majority of soils were reused on-site. Approximately 963 tons of soils excavated from work associated with utility completions in the West Commodore Way Right of Way (ROW) were disposed of off-site at Waste Management's Alaska Street Reload Station, see Attachment 1. These soils were not suitable for backfill within the ROW and there was insufficient space to place the soil on site as backfill.

Prior to construction of the concrete building slab, a 20 mil Drago Wrap vapor barrier was installed. This vapor barrier was installed over the entire building slab footprint, including elevator sumps, and installed per the manufacturer's recommendations.

Final site cap surfaces include the completed building slab, paved parking areas and sidewalks, paved roadways, and landscaped features. All exposed native soils were capped with these surfaces per the project plans and construction drawing C611 (Attachment 2). The final site coverage includes:

- The 2707 West Commodore Way lot (Lot F) is 67,025 square feet (sf)
- The building footprint is approximately 43,000 sf
- Parking, roadways, sidewalks/pathways are approximately 14,425 sf
- Landscaped areas are approximately 9,600 sf

Wastewater – All on-site water generated during construction activities, including stormwater and rinse water, was captured, treated, and discharged through a King County Wastewater Treatment Industrial Wastewater discharge authorization (No. 1198-02); included in Attachment 3.

Laboratory and Testing Reports – Attachment 4 includes laboratory reports for the following samples:

- Stormwater discharge samples required per the King County Discharge Authorization (samples SW-231117-1 through -3, collected on November 17, 2023);
- Soil samples from the ROW utility vault excavations required by the City of Seattle to determine the level of worker protection required for City of Seattle workers prior to entering the work area (samples LOC1 through LOC4, collected on April 3, 2024);
- Soil samples required by Waste Management for disposal profiling (sample SSC, collected on December 10, 2024); and
- Import material documentation.

Figures – All work was completed per the Notification of Construction Grading Plan and the construction drawings, included as Attachment 2.

Deliverables

Deliverables during this reporting period included the following:

- The Quarterly Progress Report for the first quarter of 2025 was submitted to Ecology on April 10, 2025.
- Updated financial assurance costs were provided to Ecology via email on April 18, 2025 and a revised version with 30-year rolling costs, as requested by Ecology, was provided on May 8, 2025; these costs were accepted by Ecology in emails dated May 9 and May 12, 2025.
- VI sampling results for Lot F were submitted to Ecology via email on June 27, 2025.

Deviations from Required Tasks (PPCD Section XII.B)

- None.

Anticipated Problems in Meeting Schedule or Objectives and Associated Solutions (PPCD Section XII.C and XII.D)

- Based on groundwater samples collected by BNSF in late 2023 through Q1 2025, TCE and associated cVOC as well as TPH contaminant concentrations originating from the upgradient BNSF property were identified in upgradient groundwater as part of the BNSF remedial investigation at levels considerably higher than those observed in the 2019 remedial investigation for the Time Oil Bulk Terminal Site. The elevated TCE

and cVOC concentrations in groundwater on BNSF are impacting the shallow water bearing zone (WBZ) in groundwater wells on the downgradient ASKO parcel owned by TOC Seattle Terminal 1, LLC. These impacts represent an on-going source to groundwater and may affect achievement of the cleanup levels (CULs) at the conditional point of compliance (CPOC) within the predicted 15-year restoration timeframe.
- Aside from the item above, there are no other anticipated problems in meeting the schedule of deliverables specified in Exhibit D of the PPCD. The schedule of deliverables and activities specified in Table 8.1 of the Cleanup Action Plan (Exhibit C of the PPCD) are currently on track or ahead of schedule.

Raw Data Received (PPCD Section XII.E)

- Groundwater sampling results for the 2nd Quarter 2025 were received from Friedman & Bruya, Inc. on June 13, 2025. Results were received in one sample delivery group (F&BI 506097);
- Samples collected for O&M purposes from the ASKO property permeable reactive barrier vault and gravity well were received on June 13, 2025. Results were received in one sample delivery group (F&BI 506096);
- VI sampling results for Lot F were received from Friedman & Bruya, Inc. on June 11, 2025. Results were received in one sample delivery group (F&BI 506079); and
- Copies of the laboratory reports discussed herein are provided as an attachment to this Progress Report (Attachment 5).

Work Planned During the Upcoming Reporting Period (PPCD Section XII.F)

The following work is planned for the 3rd Quarter 2025:

- Eleventh round of groundwater sampling is scheduled for September 2025;
- Review of any additional data or deliverables that may be provided by BNSF;
- VI re-sampling on Lot F is anticipated to be completed in July 2025; and
- Site checks will be conducted periodically on all interim surfaces outside of Lot F to ensure that conditions remain stable during the interim period prior to site development.

Deliverables Planned During the Upcoming Reporting Period (PPCD Section XII.G)

The following deliverables are anticipated to be completed during the next quarterly reporting period of July through September 2025:

- Transmittal of a summary of 2nd Quarter 2025 groundwater sampling results to Ecology via email;
- Submittal of the Quarterly Progress Report for the 2nd Quarter 2025;
- Submittal of VI re-sampling results for Lot F; and
- Transmittal of a summary of 3rd Quarter 2025 groundwater sampling results to Ecology via email.

Other Pertinent Information, Including Changes in Key Personnel

- None.

Attachments

- Attachment 1 – Waste Management Disposal Profiles
- Attachment 2 – Project Plans
- Attachment 3 – King County Wastewater Treatment Industrial Wastewater Discharge Authorization
- Attachment 4 – Laboratory and Testing Reports for Lot F Construction
- Attachment 5 – Laboratory Analytical Reports for Groundwater and VI Sampling

END QUARTERLY PROGRESS REPORT

ATTACHMENT 1

Waste Management Disposal Profiles

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195713

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/07/2025	Vehicle#	39T
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	ADOLFO
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2025 09:09:17	SCALE 1	galtheim		Gross	68520 lb
Out	01/07/2025 09:20:13	SCALE 1	galtheim		Tare	28220 lb
					Net	40300 lb
					Tons	20.15

Comments TD-GA
CORSTONE CON.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.15	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	20.15	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195731

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/07/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# 39T
Volume
Container
Driver ADOLFO
Check#
Billing# 0000950
Grid

	Time	Scale	Operator	Inbound		
In	01/07/2025 10:50:29	SCALE 1	galtheim		Gross	64140 lb
Out	01/07/2025 10:50:29		galtheim		Tare	28220 lb
					Net	35920 lb
					Tons	17.96

Comments TD-GA
CORESTONE CON.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	17.96	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	17.96	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195732

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/07/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# C-4
Container
Driver CAMERON
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2025 10:55:38	SCALE 1	galtheim		Gross	61480 lb
Out	01/07/2025 11:05:37	SCALE 1	galtheim		Tare	27420 lb
					Net	34060 lb
					Tons	17.03

Comments CARSON-GA
CORSTONE CON.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	17.03	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	17.03	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195741

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/07/2025	Vehicle#	C-4
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	CAMERON
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2025 12:22:44	SCALE 1	galtheim		Gross	57820 lb
Out	01/07/2025 12:22:44		galtheim		Tare	27420 lb
					Net	30400 lb
					Tons	15.20

Comments CARSON-GA
CORESTONE CON

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	15.20	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	15.20	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195742

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/07/2025	Vehicle#	39T
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	ADOLFO
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2025 12:27:20	SCALE 1	galtheim		Gross	67640 lb
Out	01/07/2025 12:27:20		galtheim		Tare	28220 lb
					Net	39420 lb
					Tons	19.71

Comments TD-GA
CORSTONE-CON

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.71	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	19.71	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195748

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/07/2025	Vehicle#	39T
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	ADOLFO
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/07/2025 13:39:32	SCALE 1	galtheim		Gross	61820 lb
Out	01/07/2025 13:39:32		galtheim		Tare	28220 lb
					Net	33600 lb
					Tons	16.80

Comments TD-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	16.80	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	16.80	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195756

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/07/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# 39T
Volume
Container
Driver ADOLFO
Check#
Billing# 0000950
Grid

	Time	Scale	Operator	Inbound
In	01/07/2025 14:53:33	SCALE 1	galtheim	
Out	01/07/2025 14:53:33		galtheim	

Gross	75800 lb
Tare	28220 lb
Net	47580 lb
Tons	23.79

Comments TD-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	23.79	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	23.79	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195759

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *		
Ticket Date	01/08/2025	Vehicle#	OLSON	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver	WYATT OLSON		
Route	AK	Check#			
Hauling Ticket#		Billing#	0000950		
Destination		Grid			
PO#	116541WA				

	Time	Scale	Operator	Inbound		
					Gross	58040 lb
In	01/08/2025 08:07:33	SCALE 1	galtheim		Tare	24400 lb
Out	01/08/2025 08:15:36	SCALE 1	galtheim		Net	33640 lb
					Tons	16.82

Comments OLSON-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	16.82	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	16.82	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195760

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/08/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# C-4
Container
Driver CAMERON
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/08/2025 08:27:38	SCALE 1	galtheim		Gross	55140 lb
Out	01/08/2025 08:27:38		galtheim		Tare	27420 lb
					Net	27720 lb
					Tons	13.86

Comments C-4 GA
CORSTONE CON.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	13.86	Tons				KING
2	ENERGY-Energy Surcharge	100		%				
3	WWM-P145-Waste Water Man	100		%				
4	GONDOLA T-GONDOLA TON	100	13.86	Tons				

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195762

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/08/2025	Vehicle#	OLSON
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	WYATT OLSON
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/08/2025 09:25:58	SCALE 1	galtheim		Gross	58260 lb
Out	01/08/2025 09:25:58		galtheim		Tare	24400 lb
					Net	33860 lb
					Tons	16.93

Comments OLSON-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	16.93	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	16.93	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195763

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/08/2025	Vehicle#	C-4
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	CAMERON
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/08/2025 09:40:20	SCALE 1	galtheim		Gross	49880 lb
Out	01/08/2025 09:40:20		galtheim		Tare	27420 lb
					Net	22460 lb
					Tons	11.23

Comments OLSON-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	11.23	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	11.23	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195764

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/08/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# OLSON
Container
Driver WYATT OLSON
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound
In	01/08/2025 10:43:10	SCALE 1	galtheim	
Out	01/08/2025 10:43:10		galtheim	

Gross	57760 lb
Tare	24400 lb
Net	33360 lb
Tons	16.68

Comments OLSON-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	16.68	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	16.68	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195765

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/08/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# C-4
Container
Driver CAMERON
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/08/2025 10:45:25	SCALE 1	galtheim		Gross	57140 lb
Out	01/08/2025 10:45:25		galtheim		Tare	27420 lb
					Net	29720 lb
					Tons	14.86

Comments C-4--GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	14.86	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	14.86	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195769

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/08/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# OLSON
Container
Driver WYATT OLSON
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/08/2025 11:48:40	SCALE 1	galtheim		Gross	48700 lb
Out	01/08/2025 11:48:40		galtheim		Tare	24400 lb
					Net	24300 lb
					Tons	12.15

Comments OLSON-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	12.15	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	12.15	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195770

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/08/2025	Vehicle#	C-4
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	CAMERON
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/08/2025 11:50:53	SCALE 1	galtheim		Gross	51800 lb
Out	01/08/2025 11:50:53		galtheim		Tare	27420 lb
					Net	24380 lb
					Tons	12.19

Comments C-4-GA
CORSTONE CON.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	12.19	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	12.19	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195772

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/08/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# 39T
Container
Driver ADOLFO
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound		
					Gross	59820 lb*
In	01/08/2025 13:07:59	SCALE 1	galtheim		Tare	28220 lb*
Out	01/08/2025 13:07:59		galtheim		Net	31600 lb
			* Manual Weight		Tons	15.80

Comments TD-GA
CORSTONE CON.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	15.80	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	15.80	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195773

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *		
Ticket Date	01/08/2025	Vehicle#	C-4	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver	CAMERON		
Route	AK	Check#			
Hauling Ticket#		Billing#	0000950		
Destination		Grid			
PO#	116541WA				

	Time	Scale	Operator	Inbound		
In	01/08/2025 13:15:24	SCALE 1	galtheim		Gross	58580 lb*
Out	01/08/2025 13:15:24		galtheim		Tare	27420 lb*
					Net	31160 lb
			* Manual Weight		Tons	15.58

Comments C-4-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	15.58	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	15.58	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195775

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *		
Ticket Date	01/08/2025	Vehicle#	OLSON	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver	WYATT OLSON		
Route	AK	Check#			
Hauling Ticket#		Billing#	0000950		
Destination		Grid			
PO#	116541WA				

	Time	Scale	Operator	Inbound		
In	01/08/2025 13:45:51	SCALE 1	galtheim		Gross	57880 lb*
Out	01/08/2025 13:45:51		galtheim		Tare	24400 lb*
					Net	33480 lb
			* Manual Weight		Tons	16.74

Comments OLSON-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	16.74	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	16.74	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195777

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/08/2025	Vehicle#	C-4
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	CAMERON
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/08/2025 14:32:08	SCALE 1	galtheim		Gross	57980 lb
Out	01/08/2025 14:32:08		galtheim		Tare	27420 lb
					Net	30560 lb
					Tons	15.28

Comments C4 -GA
CORSTONE CON.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	15.28	Tons				KING
2	ENERGY-Energy Surcharge	100		%				
3	WWM-P145-Waste Water Man	100		%				
4	GONDOLA T-GONDOLA TON	100	15.28	Tons				

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195778

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/08/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# OLSON
Volume
Container
Driver WYATT OLSON
Check#
Billing# 0000950
Grid

	Time	Scale	Operator	Inbound		
In	01/08/2025 14:59:07	SCALE 1	galtheim		Gross	48840 lb
Out	01/08/2025 14:59:07		galtheim		Tare	24400 lb
					Net	24440 lb
					Tons	12.22

Comments OLSON-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	12.22	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	12.22	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195779

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/08/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# C-4
Container
Driver CAMERON
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/08/2025 15:30:50	SCALE 1	galtheim		Gross	55480 lb
Out	01/08/2025 15:30:50		galtheim		Tare	27420 lb
					Net	28060 lb
					Tons	14.03

Comments C-4-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	14.03	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	14.03	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195783

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/09/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# C-8
Container
Driver CHRIS
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound		
					Gross	59700 lb
In	01/09/2025 08:10:28	SCALE 1	galtheim		Tare	27420 lb
Out	01/09/2025 08:10:28		galtheim		Net	32280 lb
					Tons	16.14

Comments C-4-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	16.14	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	16.14	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195784

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/09/2025	Vehicle#	OLSON2
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	WYATT
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2025 08:23:40	SCALE 1	galtheim		Gross	62220 lb
Out	01/09/2025 08:30:33	SCALE 1	galtheim		Tare	26140 lb
					Net	36080 lb
					Tons	18.04

Comments OLSON-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	18.04	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	18.04	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195791

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/09/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# C-8
Container
Driver CHRIS
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2025 09:57:50	SCALE 1	galtheim		Gross	57900 lb*
Out	01/09/2025 09:57:50		galtheim		Tare	27420 lb*
			* Manual Weight		Net	30480 lb
					Tons	15.24

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	15.24	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	15.24	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195792

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *	
Ticket Date	01/09/2025	Vehicle#	OLSON2	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver	WYATT	
Route	AK	Check#		
Hauling Ticket#		Billing#	0000950	
Destination		Grid		
PO#	116541WA			

	Time	Scale	Operator	Inbound		
In	01/09/2025 10:00:08	SCALE 1	galtheim		Gross	66560 lb
Out	01/09/2025 10:00:08		galtheim		Tare	26140 lb
					Net	40420 lb
					Tons	20.21

Comments OLSON2-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.21	Tons				KING
2	ENERGY-Energy Surcharge	100		%				
3	WWM-P145-Waste Water Man	100		%				
4	GONDOLA T-GONDOLA TON	100	20.21	Tons				

Total Tax
Total Ticket

Driver`s Signature

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195793

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/09/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# 39T
Container
Driver ADOLFO
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2025 10:05:27	SCALE 1	galtheim		Gross	68300 lb
Out	01/09/2025 10:05:27		galtheim		Tare	28220 lb
					Net	40080 lb
					Tons	20.04

Comments TD-GA

CORSTONE CON.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	20.04	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	20.04	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195798

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/09/2025	Vehicle#	C-8
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	CHRIS
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2025 11:23:13	SCALE 1	galtheim		Gross	57040 lb
Out	01/09/2025 11:23:13		galtheim		Tare	27420 lb
					Net	29620 lb
					Tons	14.81

Comments C-8-GA
CORSTONE

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	14.81	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	14.81	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195800

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/09/2025	Vehicle#	OLSON2
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	WYATT
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2025 11:30:58	SCALE 1	galtheim		Gross	60780 lb
Out	01/09/2025 11:30:58		galtheim		Tare	26140 lb
					Net	34640 lb
					Tons	17.32

Comments OLSON2-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	17.32	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	17.32	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195802

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/09/2025	Vehicle#	39T
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	ADOLFO
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2025 11:42:01	SCALE 1	galtheim		Gross	71540 lb
Out	01/09/2025 11:42:01		galtheim		Tare	28220 lb
					Net	43320 lb
					Tons	21.66

Comments TD-GA
CORSTONE CON.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.66	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	21.66	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195811

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/09/2025	Vehicle#	39T
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	ADOLFO
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2025 12:51:38	SCALE 1	galtheim		Gross	72100 lb
Out	01/09/2025 12:51:38		galtheim		Tare	28220 lb
					Net	43880 lb
					Tons	21.94

Comments TD-GA
CORSTONE CON.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.94	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	21.94	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195815

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/09/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# OLSON2
Container
Driver WYATT
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2025 13:11:02	SCALE 1	galtheim		Gross	63880 lb
Out	01/09/2025 13:11:02		galtheim		Tare	26140 lb
					Net	37740 lb
					Tons	18.87

Comments OLSON2-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	18.87	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	18.87	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195816

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/09/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# C-8
Container
Driver CHRIS
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2025 13:14:14	SCALE 1	galtheim		Gross	59280 lb
Out	01/09/2025 13:14:14		galtheim		Tare	27420 lb
					Net	31860 lb
					Tons	15.93

Comments C-8-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	15.93	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	15.93	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195822

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/09/2025	Vehicle#	39T
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	ADOLFO
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2025 14:40:06	SCALE 1	galtheim		Gross	74300 lb
Out	01/09/2025 14:40:06		galtheim		Tare	28220 lb
					Net	46080 lb
					Tons	23.04

Comments TD-GA
CORSTONE CON.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	23.04	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	23.04	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195823

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/09/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# OLSON2
Container
Driver WYATT
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2025 14:50:38	SCALE 1	galtheim		Gross	64720 lb
Out	01/09/2025 14:50:38		galtheim		Tare	26140 lb
					Net	38580 lb
					Tons	19.29

Comments OLSON2-GA
CORSTONE CON.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	19.29	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	19.29	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195824

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/09/2025	Vehicle#	C-8
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	CHRIS
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2025 14:58:19	SCALE 1	galtheim		Gross	59780 lb
Out	01/09/2025 14:58:19		galtheim		Tare	27420 lb
					Net	32360 lb
					Tons	16.18

Comments C-8-GA
CORSTONE CON.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	16.18	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	16.18	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195828

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/10/2025	Vehicle#	39T
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	ADOLFO
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/10/2025 08:32:49	SCALE 1	galtheim		Gross	58740 lb
Out	01/10/2025 08:32:49		galtheim		Tare	28220 lb
					Net	30520 lb
					Tons	15.26

Comments TD EXC - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	15.26	Tons				KING
2	ENERGY-Energy Surcharge	100		%				
3	WWM-P145-Waste Water Man	100		%				
4	GONDOLA T-GONDOLA TON	100	15.26	Tons				

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195829

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/10/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# C-8
Container
Driver CHRIS
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/10/2025 08:38:29	SCALE 1	galtheim		Gross	53780 lb
Out	01/10/2025 08:38:29		galtheim		Tare	27420 lb
					Net	26360 lb
					Tons	13.18

Comments CARSON - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	13.18	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	13.18	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195830

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/10/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# 39T
Container
Driver ADOLFO
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/10/2025 10:00:41	SCALE 1	galtheim		Gross	52200 lb
Out	01/10/2025 10:00:41		galtheim		Tare	28220 lb
					Net	23980 lb
					Tons	11.99

Comments TD EXC - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	11.99	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	11.99	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195832

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/10/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# C-8
Container
Driver CHRIS
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/10/2025 10:26:41	SCALE 1	galtheim		Gross	52980 lb
Out	01/10/2025 10:26:41		galtheim		Tare	27420 lb
					Net	25560 lb
					Tons	12.78

Comments CARSON - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	12.78	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	12.78	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195833

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *		
Ticket Date	01/10/2025	Vehicle#	39T	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver	ADOLFO		
Route	AK	Check#			
Hauling Ticket#		Billing#	0000950		
Destination		Grid			
PO#	116541WA				

	Time	Scale	Operator	Inbound		
In	01/10/2025 11:40:42	SCALE 1	galtheim		Gross	61940 lb
Out	01/10/2025 11:40:42		galtheim		Tare	28220 lb
					Net	33720 lb
					Tons	16.86

Comments TD EXC - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	16.86	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	16.86	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195834

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/10/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# C-8
Container
Driver CHRIS
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound
In	01/10/2025 12:15:28	SCALE 1	galtheim	
Out	01/10/2025 12:15:28		galtheim	

Gross	55280 lb
Tare	27420 lb
Net	27860 lb
Tons	13.93

Comments CARSON - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	13.93	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	13.93	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195838

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/10/2025	Vehicle#	C-8
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	CHRIS
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/10/2025 13:46:05	SCALE 1	galtheim		Gross	57400 lb
Out	01/10/2025 13:46:05		galtheim		Tare	27420 lb
					Net	29980 lb
					Tons	14.99

Comments CARSON - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	14.99	Tons				KING
2	ENERGY-Energy Surcharge	100		%				
3	WWM-P145-Waste Water Man	100		%				
4	GONDOLA T-GONDOLA TON	100	14.99	Tons				

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195840

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/10/2025	Vehicle#	39T
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	ADOLFO
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/10/2025 13:55:15	SCALE 1	galtheim		Gross	74560 lb
Out	01/10/2025 13:55:15		galtheim		Tare	28220 lb
					Net	46340 lb
					Tons	23.17

Comments TD EXC - LM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	23.17	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	23.17	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195843

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/13/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# C-8
Container
Driver CHRIS
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2025 08:11:32	SCALE 1	galtheim		Gross	54340 lb
Out	01/13/2025 08:11:32		galtheim		Tare	27420 lb
					Net	26920 lb
					Tons	13.46

Comments C-8-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	13.46	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	13.46	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195844

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/13/2025	Vehicle#	C-4
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	CAMERON
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2025 08:18:12	SCALE 1	galtheim		Gross	53180 lb
Out	01/13/2025 08:18:12		galtheim		Tare	27420 lb
					Net	25760 lb
					Tons	12.88

Comments C-4-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	12.88	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	12.88	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195853

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *	
Ticket Date	01/13/2025	Vehicle#	C-8	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver	CHRIS	
Route	AK	Check#		
Hauling Ticket#		Billing#	0000950	
Destination		Grid		
PO#	116541WA			

	Time	Scale	Operator	Inbound		
In	01/13/2025 09:18:15	SCALE 1	galtheim		Gross	52520 lb
Out	01/13/2025 09:18:15		galtheim		Tare	27420 lb
					Net	25100 lb
					Tons	12.55

Comments C-8-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	12.55	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	12.55	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195854

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/13/2025	Vehicle#	C-4
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	CAMERON
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2025 09:31:16	SCALE 1	galtheim		Gross	53460 lb
Out	01/13/2025 09:31:16		galtheim		Tare	27420 lb
					Net	26040 lb
					Tons	13.02

Comments C-4-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	13.02	Tons				KING
2	ENERGY-Energy Surcharge	100		%				
3	WWM-P145-Waste Water Man	100		%				
4	GONDOLA T-GONDOLA TON	100	13.02	Tons				

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195856

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/13/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# 39T
Container
Driver ADOLFO
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2025 10:03:22	SCALE 1	galtheim		Gross	58040 lb
Out	01/13/2025 10:03:22		galtheim		Tare	28220 lb
					Net	29820 lb
					Tons	14.91

Comments TD-GA
CORSTONE CON.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	14.91	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	14.91	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195862

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/13/2025	Vehicle#	C-8
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	CHRIS
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2025 10:34:28	SCALE 1	galtheim		Gross	53720 lb
Out	01/13/2025 10:34:28		galtheim		Tare	27420 lb
					Net	26300 lb
					Tons	13.15

Comments CARSON-GA

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	13.15	Tons				KING
2	ENERGY-Energy Surcharge	100		%				
3	WWM-P145-Waste Water Man	100		%				
4	GONDOLA T-GONDOLA TON	100	13.15	Tons				

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195864

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/13/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# C-4
Container
Driver CAMERON
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound
In	01/13/2025 10:37:23	SCALE 1	galtheim	
Out	01/13/2025 10:37:23		galtheim	

Gross 52720 lb
Tare 27420 lb
Net 25300 lb
Tons 12.65

Comments CARSON-GA

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	12.65	Tons				KING
2	ENERGY-Energy Surcharge	100		%				
3	WWM-P145-Waste Water Man	100		%				
4	GONDOLA T-GONDOLA TON	100	12.65	Tons				

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195868

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/13/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# 39T
Volume
Container
Driver ADOLFO
Check#
Billing# 0000950
Grid

	Time	Scale	Operator	Inbound		
In	01/13/2025 11:09:43	SCALE 1	galtheim		Gross	60020 lb
Out	01/13/2025 11:09:43		galtheim		Tare	28220 lb
					Net	31800 lb
					Tons	15.90

Comments TD-GA
CORSTONE CON.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	15.90	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	15.90	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195870

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *	
Ticket Date	01/13/2025	Vehicle#	C-8	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver	CHRIS	
Route	AK	Check#		
Hauling Ticket#		Billing#	0000950	
Destination		Grid		
PO#	116541WA			

	Time	Scale	Operator	Inbound		
In	01/13/2025 11:39:34	SCALE 1	galtheim		Gross	52000 lb
Out	01/13/2025 11:39:34		galtheim		Tare	27420 lb
					Net	24580 lb
					Tons	12.29

Comments C-8-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	12.29	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	12.29	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195872

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/13/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# C-4
Container
Driver CAMERON
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound
In	01/13/2025 11:49:28	SCALE 1	galtheim	
Out	01/13/2025 11:49:28		galtheim	

Gross	53180 lb
Tare	27420 lb
Net	25760 lb
Tons	12.88

Comments CARSON-GA

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	12.88	Tons				KING
2	ENERGY-Energy Surcharge	100		%				
3	WWM-P145-Waste Water Man	100		%				
4	GONDOLA T-GONDOLA TON	100	12.88	Tons				

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195875

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/13/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# 39T
Container
Driver ADOLFO
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound
In	01/13/2025 12:32:58	SCALE 1	galtheim	
Out	01/13/2025 12:32:58		galtheim	

Gross	71380 lb
Tare	28220 lb
Net	43160 lb
Tons	21.58

Comments TD-GA
CORSTONE

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	21.58	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	21.58	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195879

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/13/2025	Vehicle#	C-8
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	CHRIS
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2025 12:51:56	SCALE 1	galtheim		Gross	58940 lb
Out	01/13/2025 12:51:56		galtheim		Tare	27420 lb
					Net	31520 lb
					Tons	15.76

Comments CARSON-GA

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	15.76	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	15.76	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195880

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/13/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# C-4
Container
Driver CAMERON
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2025 12:55:08	SCALE 1	galtheim		Gross	58400 lb
Out	01/13/2025 12:55:08		galtheim		Tare	27420 lb
					Net	30980 lb
					Tons	15.49

Comments CARSON-GA

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	15.49	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	15.49	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195888

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/13/2025	Vehicle#	39T
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	ADOLFO
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2025 13:55:38	SCALE 1	galtheim		Gross	54480 lb
Out	01/13/2025 13:55:38		galtheim		Tare	28220 lb
					Net	26260 lb
					Tons	13.13

Comments TD-GA
CORSTONE CON.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	13.13	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	13.13	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134
Ph: 206 763 5025

Reprint
Ticket# 195889

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/13/2025	Vehicle#	C-8
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	CHRIS
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2025 13:58:45	SCALE 1	galtheim		Gross	53000 lb
Out	01/13/2025 13:58:45		galtheim		Tare	27420 lb
					Net	25580 lb
					Tons	12.79

Comments C-8-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	12.79	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	12.79	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195890

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/13/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# C-4
Container
Driver CAMERON
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound
In	01/13/2025 14:05:51	SCALE 1	galtheim	
Out	01/13/2025 14:05:51		galtheim	

Gross	57680 lb
Tare	27420 lb
Net	30260 lb
Tons	15.13

Comments C-4 CARSON-GA

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	15.13	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	15.13	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195901

Customer Name CORSTONE CONTRACTORS 116541WA
Ticket Date 01/14/2025
Payment Type Credit Account
Manual Ticket#
Route AK
Hauling Ticket#
Destination
PO# 116541WA

Carrier SELF HAULER *
Vehicle# C-8
Container
Driver CHRIS
Check#
Billing# 0000950
Grid

Volume

	Time	Scale	Operator	Inbound		
In	01/14/2025 09:52:18	SCALE 1	galtheim		Gross	51620 lb
Out	01/14/2025 09:52:18		galtheim		Tare	27420 lb
					Net	24200 lb
					Tons	12.10

Comments C-8-GA
CORSTONE

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	12.10	Tons				KING
2	ENERGY-Energy Surcharge	100		%				
3	WWM-P145-Waste Water Man	100		%				
4	GONDOLA T-GONDOLA TON	100	12.10	Tons				

Total Tax
Total Ticket

Driver`s Signature

WASTE MANAGEMENT

Alaska Street
70 S Alaska Street
Seattle, WA, 98134

Ph: 206 763 5025

Reprint
Ticket# 195935

Customer Name	CORSTONE CONTRACTORS 116541WA	Carrier	SELF HAULER *
Ticket Date	01/14/2025	Vehicle#	C-8
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	CHRIS
Route	AK	Check#	
Hauling Ticket#		Billing#	0000950
Destination		Grid	
PO#	116541WA		

Volume

	Time	Scale	Operator	Inbound		
In	01/14/2025 13:36:40	SCALE 1	galtheim		Gross	43100 lb
Out	01/14/2025 13:36:40		galtheim		Tare	27420 lb
					Net	15680 lb
					Tons	7.84

Comments CARSEN-GA

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-Tons-Pet	100	7.84	Tons				KING
2	ENERGY-Energy Surcharge	100		%				KING
3	WWM-P145-Waste Water Man	100		%				KING
4	GONDOLA T-GONDOLA TON	100	7.84	Tons				KING

Total Tax
Total Ticket

Driver`s Signature

ATTACHMENT 2

Project Plans

INSITE SALMON BAY STORAGE

SURVEY NOTES

(PER SURVEY BY AXIS SURVEY & MAPPING, DATED 8/22/22)

BASIS OF BEARINGS:
HELD A BEARING OF N88°56'31"W FROM PUNCH IN BRASS DISK ON CONC MON IN ALUMINUM CASE AT THE INTERSECTION OF W. FORT ST. (W. GOVERNMENT WAY) AND 32ND AVE. W., AND A TACK AND WASHER AT THE INTERSECTION OF W. FORT ST. AND 27TH AVE. W.

HORIZONTAL DATUM:
NAD 83/91

HORIZONTAL DATUM (NAD 83/91)
OWNER: CITY OF SEATTLE
DESCRIPTION: FND PUNCH IN 3/8" BRASS PIN IN CONC MON IN CASE, DN. 0.95'
LOCATION INTERSECTION OF COMMODORE WAY AND 31ST AVE W.
N=245964.86
E=1255189.74

HORIZONTAL DATUM (NAD 83/91)
OWNER: CITY OF SEATTLE
DESCRIPTION: FND 1/8" BRASS PIN IN CONC MON IN CASE, DN. 1.25', 0.03'N. X 5.23'E. OF INTX.
LOCATION: NEAR INTX. OF COMMODORE WAY AND 29TH AVE. W.
N=245632.09
E=1255633.83

HORIZONTAL DATUM (NAD 83/91)
OWNER: CITY OF SEATTLE
DESCRIPTION: FND MON – STAMPED 'X' IN 2" BRASS DISK
"COS 3773–2502 SURVEY"
LOCATION: ±19' S. OF INTX. OF COMMODORE WAY AND 29TH AVE. W.
N=245613.83
E=1255627.57

HORIZONTAL DATUM (NAD 83/91)
OWNER: CITY OF SEATTLE
DESCRIPTION: FND 1/8" BRASS PIN IN CONC MON IN CASE, DN. 1.25'
LOCATION: INTERSECTION OF COMMODORE WAY AND 27TH AVE. W.
N=245450.98
E=1256594.55

HORIZONTAL DATUM (NAD 83/91)
OWNER: CITY OF SEATTLE
DESCRIPTION: FND TACK & LS WASHER IN ASPHALT AT INTX.
LOCATION: INTERSECTION OF W. FORT ST. AND 27TH AVE. W.
N=245113.77
E=1256588.59

HORIZONTAL DATUM (NAD 83/91)
OWNER: CITY OF SEATTLE
DESCRIPTION: FND PUNCH IN 3/4" BRASS DISK IN CONC MON IN ALUM CASE, DN. 1.0'
LOCATION: INTERSECTION OF W. FORT ST. AND 32ND AVE. W.
N=245146.48
E=1254817.34

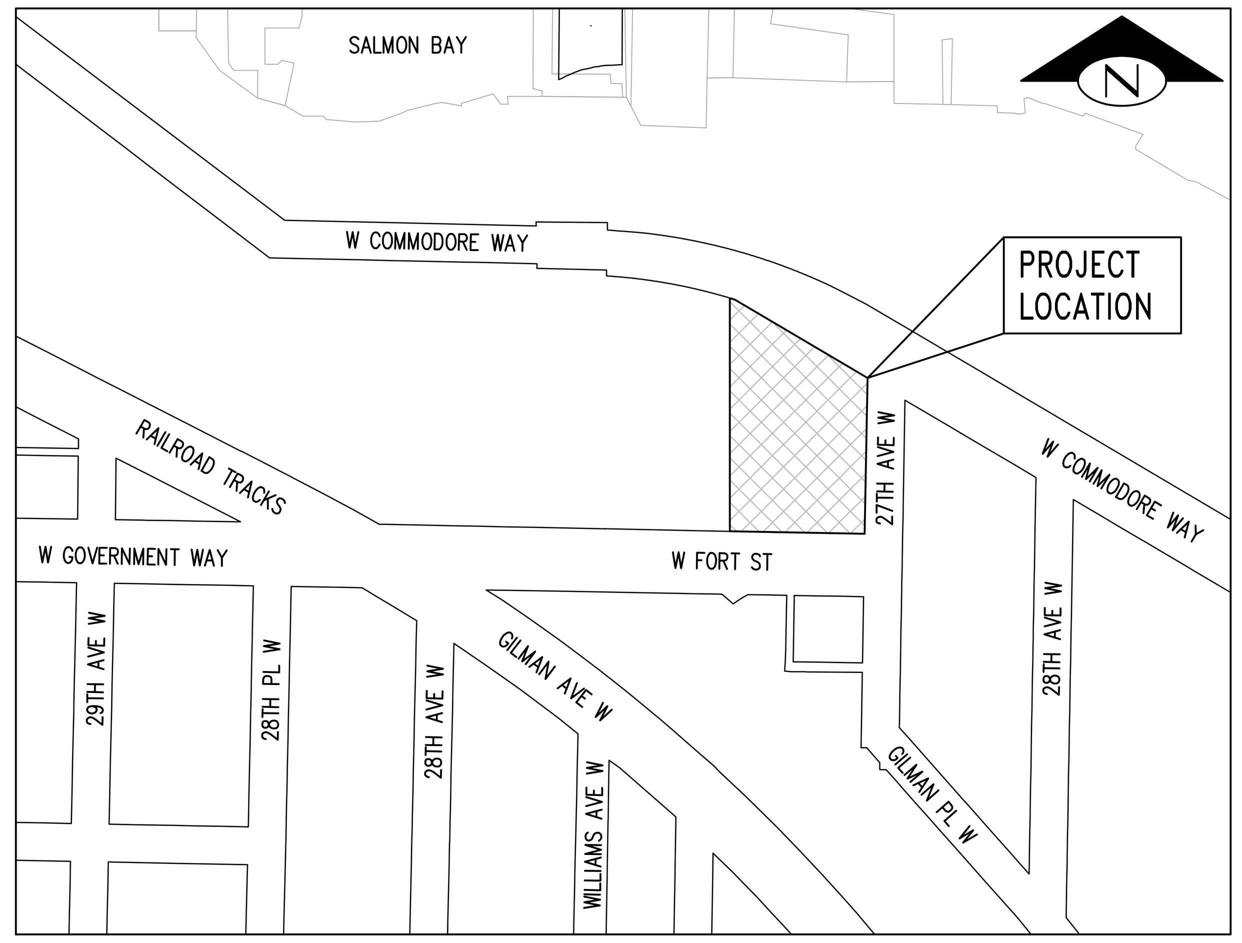
ORIGINATING BENCHMARK:
NATIONAL GEODETIC SURVEY (NGS) BENCHMARK 944 7130 TIDAL 7 PID SY0289 A DISK SET 3.0 FEET ABOVE THE CONCRETE SIDEWALK IN THE SW GRANITE CORNERSTONE OF THE NATIONAL BUILDING LOCATED ON THE NE CORNER OF THE INTERSECTION OF THE WESTERN AVENUE AND MADISON STREET, SEATTLE, WA

VERTICAL DATUM:
NAVD 88
ELEVATION: 19.26'

BM – CITY OF SEATTLE #5166 – FND 2" DOMED BRASS DISK @ INTX BACK OF CONC WALKS @ SE QUAD INTX WILLIAMS AVE W. & GILMAN AVE W. STAMPED "C OF S 5166"
ELEVATION: 90.18'

TBM – A, MAGNETIC NAIL W/CONTROL WASHER, SET IN ASPHALT S. SIDE OF W. COMMODORE WAY, 35'E. BY 35'N. OF THE NE CORNER OF BUILDING #2737
ELEV=45.12

TBM – B, MAGNETIC NAIL W/CONTROL WASHER, SET IN ASPHALT S. SIDE OF W. COMMODORE WAY, 87'W. BY 50'N. OF THE NW CORNER OF BUILDING #2737
ELEV=44.23



VICINITY MAP
SCALE: 1" = 200'

SHEET INDEX

2 4

4

EXISTING LEGEND

SYMBOL LEGEND

SURVEY MONUMENT IN CASE
SURVEY REBAR/CAP, PIPE/CAP, IRON PIPE
TACK/LEAD, TACK PK NAIL, SPIKE
SURVEY BENCHMARK
CATCH BASIN: V-CB240A
CATCH BASIN: V-CB241
CATCH BASIN: V-CB243A
CLEAN-OUT: V-CO
MAINTENANCE HOLE: V-MH204A
MAINTENANCE HOLE: V-MH204B
MAINTENANCE HOLE: V-MH205A
CULVERT
HOSE BIB
HVAC
INJECTION WELL
MW MONITOR WELL
BOLLARD
PILE
POST
SIGN
GATE VALVE
FIRE HYDRANT
EV ELECTRICAL VAULT
LP LIGHT POLE
POWER POLE WITH STREET LIGHT
YARD LIGHT
UTILITY POLE
GP GUY POLE
GUY ANCHOR
NATURAL GAS VALVE
POWER METER
WATER MANHOLE
WM WATER METER
CONIFEROUS TREE
DECIDUOUS TREE

ABBREVIATIONS

AP	ANGLE POINT
ASPH	ASPHALT
BLDG	BUILDING
BLRD	BOLLARD
BM	BENCH MARK
BRKN	BROKEN
CALC	CALCULATION
CB	CATCH BASIN
Ⓛ	CENTER LINE
CLF	CHAIN LINK FENCE
CO	CLEAN OUT
CONC	CONCRETE
COR	CORNER
COS	CITY OF SEATTLE
CULV	CULVERT
CW	CONCRETE WALK
DBL	DOUBLE
DI	DUCTILE IRON PIPE
DWY	DRIVEWAY
E	EAST
EOC	END OF CURB
EV	ELECTRICAL VAULT
FC	FACE OF CURB
FND	FOUND
G	GAS
GP	GUY POLE
GV	GATE VALVE
HYD	HYDRANT
IE	INVERT ELEVATION
MB	MAILBOX
MIC	MONUMENT IN CASE
MON	MONUMENT
MW	MONITOR WELL
N	NORTH
NAVD	NORTH AMERICAN VERTICAL DATUM
NO	NUMBER
PL	PROPERTY LINE
PS	PIPE SEWER COMBINED
PSD	PIPE SEWER DRAIN
PSS	PIPE SEWER SANITARY
RET WALL	RETAINING WALL
RR	RAILROAD
S	SOUTH
SCL	SEATTLE CITY LIGHT
SD	SERVICE DRAIN
SW	SIDEWALK
TYP	TYPICAL
UP	UTILITY POLE
W	WEST
WCR	WALKWAY CURB RAMP
WM	WATER METER
WV	WATER VALVE

ABBREVIATIONS

APPROX	APPROXIMATE
AVE	AVENUE
BC	BOTTOM OF CURB
CB	CATCH BASIN
℄/CL	CENTERLINE
COS	CITY OF SEATTLE
DI	DUCTILE IRON
E	EAST
ECd	ELECTRICAL CONDUIT
ELEV	ELEVATION
EX/EXIST	EXISTING
FF	FINISHED FLOOR
G	GAS
HORZ/HORIZ	HORIZONTAL
HH	HANDHOLE
HMA	HOT MIX ASPHALT
IE	INVERT ELEVATION
LT	LEFT
MEAS	MEASURED
MIN	MINIMUM
NO	NUMBER
N	NORTH
NAD	NORTH AMERICAN DATUM
NAVD	NORTH AMERICAN VERTICAL DATUM
NE	NORTHEAST
NW	NORTHWEST
PCC	PORTLAND CEMENT CONCRETE
PL	PROPERTY LINE
POC	POINT OF CONNECTION
PSD	PIPE STORM DRAIN
PSS	PIPE SEWER SANITARY
PVC	POLYVINYL CHLORIDE
R	RADIUS
ROW	RIGHT OF WAY
RT	RIGHT
S	SOUTH
SCH	SCHEDULE
SCL	SEATTLE CITY LIGHT
SDOT	SEATTLE DEPARTMENT OF TRANSPORTATION
SE	SOUTHEAST
SL	STREETLIGHT
SPU	SEATTLE PUBLIC UTILITIES
SS	SIDE SEWER COMBINED
SSS	SIDE SEWER SANITARY
ST	STREET
STA	STATION
STD	STANDARD
SW	SOUTHWEST
TC	TOP OF CURB
TYP	TYPICAL
UMP	UTILITY MAJOR PERMIT
UNO	UNLESS NOTED OTHERWISE
W	WATER, WEST

NOTES

1. THIS SITE WAS HISTORICALLY AN OIL STORAGE FACILITY AND RECENTLY UNDERWENT REMEDIATION ACTIVITIES, IN COORDINATION WITH DEPARTMENT OF ECOLOGY, TO REMOVE AND CONTAIN CONTAMINATED SOILS LOCATED ON AND ADJACENT TO THE SITE. IN SITU STABILIZATION/SOLIDIFICATION (ISS) METHODS WERE IMPLEMENTED IN REGIONS OF THE SITE, AND SWELL SPOILS WERE STOCKPILED IN THE SOUTHERN PORTION OF THE SITE NEAR WEST FORT STREET. THESE AREAS ARE DOCUMENTED ON THE TOPOGRAPHIC SURVEY, BUT ARE NOT THE ONLY AREAS ONSITE THAT MAY HAVE CONTAMINATED MATERIALS. SITE GRADING AND UTILITY TRENCH EXCAVATIONS THAT INTERSECT (ISS) AREAS MAY REQUIRE SPECIALIZED EQUIPMENT OR METHODS DUE TO THE HIGH STRENGTH OF THE STABILIZED SOIL (50 TO 800 PSI 28–DAY COMPRESSIVE STRENGTH). PRIOR TO ANY WORK, REFER TO THE SREMP (SOIL AND REMEDIAL ELEMENT MANAGEMENT PLAN), PREPARED BY CRETE (JAMIE STEVENS jamie.stevens@creteconsulting.com), DATED 10/05/2022. A COPY OF THIS DOCUMENT SHALL BE ON SITE DURING CONSTRUCTION. SPECIFICALLY, CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SREMP REQUIREMENTS PERTAINING TO, BUT NOT LIMITED TO, COORDINATION WITH ECOLOGY, WORKER HEALTH AND SAFETY, EARTHWORK PLANNING, DELINEATION AND MANAGEMENT OF POTENTIALLY CONTAMINATED AND UNCONTAMINATED SOILS, CONSTRUCTION STORMWATER MANAGEMENT, AND DOCUMENTATION AND REPORTING REQUIREMENTS. 1

2. CAUTION: CONTRACTOR IS ALERTED TO THE FACT THAT WORK WILL BE ACCOMPLISHED AROUND ACTIVE PSE GAS AND ENERGIZED SEATTLE CITY LIGHT (SCL) FACILITIES THAT ARE SERVING EXISTING CUSTOMERS. CONTRACTOR SHALL COORDINATE WITH PSE AND SCL TO DETERMINE WHICH FACILITIES ARE ACTIVE AND ENERGIZED AND SHALL IMPLEMENT SAFETY PROCEDURES PER PSE AND SCL REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH PSE AND SCL TO ENSURE THAT FACILITIES ARE IN PLACE TO MAINTAIN SERVICE TO CUSTOMERS THROUGHOUT CONSTRUCTION.

811 Call 811 two business days before you dig

SDCI 6826187-CN

JACKSON | MAIN ARCHITECTURE
311 FIRST AVENUE SOUTH
SEATTLE, WA 98104
t 206.324.4800
WWW.JACKSONMAIN.COM

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com

SALMON BAY - SOUTH
INSITE SALMON BAY STORAGE
2707 W. COMMODORE WAY
SEATTLE, WA 98199

DATE	NO.	DESCRIPTION
06/02/23	1	BID ADDENDUM
06/16/23	2	BID ADDENDUM
10/04/23	3	IFC SET
02/23/24	4	CONSTRUCTION BULLETIN #6

JENIFER R. CLAPHAM
STATE OF WASHINGTON
40799
REGISTERED
PROFESSIONAL ENGINEER
2024-02-22

PROJECT NO.:
PROJECT MGR.:
DRAWN BY:
CHECKED BY:

COVER

C100

Feb 22, 2024 – 6:16pm KyleA Z:\2000001–2009999\2000430 Salmon Bay\CADD\Design\SDCI–East\SBSE–C100–COVR.dwg

CITY OF SEATTLE GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE 2023 EDITION OF CITY OF SEATTLE STANDARD SPECIFICATIONS, THE 2023 EDITION OF THE CITY OF SEATTLE STANDARD PLANS; AND SEATTLE DEPARTMENT OF TRANSPORTATION DIRECTOR'S RULE 01-2017 RIGHT-OF-WAY OPENING AND RESTORATION RULES. A COPY OF THESE DOCUMENTS SHALL BE ON SITE DURING CONSTRUCTION.
2. A COPY OF THE APPROVED PLAN MUST BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
3. ERRORS AND OMISSIONS ON THE PERMITTED PLANS MUST BE CORRECTED BY THE ENGINEER AND APPROVED BY THE CITY OF SEATTLE.
4. ALL PERMITS REQUIRED FOR WORK WITHIN THE PUBLIC RIGHT OF WAY MUST BE OBTAINED PRIOR TO THE START OF CONSTRUCTION.
5. PRIOR TO THE START OF CONSTRUCTION WITHIN THE RIGHT OF WAY, THE PERMITTEE SHALL SCHEDULE AND ATTEND A PRECONSTRUCTION MEETING WITH THE CITY OF SEATTLE DEPARTMENT OF TRANSPORTATION.
6. PERMITTEE SHALL CONTACT SEATTLE DEPARTMENT OF TRANSPORTATION, STREET USE INSPECTOR A MINIMUM OF 2 BUSINESS DAYS PRIOR TO NEEDING AN INSPECTION.
7. ALL DAMAGE TO CITY INFRASTRUCTURE CAUSED BY THE CONSTRUCTION SHALL BE IMMEDIATELY REPORTED AND REPAIRED AS REQUIRED BY THE SEATTLE DEPARTMENT OF TRANSPORTATION. TO REPORT DAMAGE TO SPU INFRASTRUCTURE, INCLUDING ANY SEWAGE RELEASE OR BLOCKAGE, CALL 206-386-1800.
8. THE APPROVED PLANS SHALL SHOW THE APPROXIMATE AREA OF PAVEMENT RESTORATION BASED ON THE DEPTH OF UTILITY CUTS AND/OR THE AREA OF CURB AND/OR PAVEMENT TO BE REMOVED AND REPLACED. THE ACTUAL LIMITS OF THE PAVEMENT RESTORATION SHALL BE PER THE DIRECTOR'S RULE 01-2017, RIGHT OF-WAY OPENING AND RESTORATION RULE AND WILL BE DETERMINED IN THE FIELD BY THE SEATTLE DEPARTMENT OF TRANSPORTATION STREET USE INSPECTOR PRIOR TO THE PAVEMENT RESTORATION. FOR SPU WATER SERVICES, APPLICANT MUST SHOW THE PAVEMENT RESTORATION LIMITS FOR THE PROPOSED AND THE EXISTING WATER SERVICES TO BE RETIRED, INCLUDING SERVICES THAT ARE OUTSIDE THE PROJECT AREA, BUT SERVE THE PARCEL.
9. DATUM: NAVD88 AND NAD 83/91 2010.00 EPOCH.
10. SURVEYING AND STAKING OF ALL IMPROVEMENTS IN THE PUBLIC RIGHT OF WAY SHALL BE COMPLETED PRIOR TO CONSTRUCTION. PERMITTEE TO STAKE THE CURB AT THE CENTERLINE OF DRAINAGE GRATES PER STANDARD PLAN 260A. SURVEY GRADE SHEETS MUST BE SUBMITTED AND APPROVED BY THE SEATTLE DEPARTMENT OF TRANSPORTATION AT LEAST 2 BUSINESS DAYS PRIOR TO CONSTRUCTION.
11. IF AN EXISTING CURB IS TO BE REMOVED AND REPLACED IN THE SAME LOCATION THE PERMITTEE SHALL PROVIDE THE STREET USE INSPECTOR A PLAN WITH EXISTING FLOW LINE AND TOP OF CURB ELEVATIONS IDENTIFIED. PERMITTEE TO STAKE THE LOCATION OF THE EXISTING CURB PRIOR TO DEMOLITION.
12. THE PERMITTEE MUST BE RESPONSIBLE FOR REFERENCING AND REPLACING ALL SURVEY MONUMENTS THAT MAY BE DISTURBED, DESTROYED OR REMOVED BY THE PROJECT AND 2 WORKING DAYS, PRIOR TO THE WORK, MUST FILE AN APPLICATION FOR PERMIT TO REMOVE OR DESTROY A SURVEY MONUMENT WITH THE WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES, PURSUANT TO WAC 332-120. THE PERMITTEE MUST PROVIDE THE ENGINEER AND SPU LAND SURVEY WITH A COPY OF THE APPROVED PERMIT AND COMPLETION REPORT. SEE STANDARD SPECIFICATION 1- 07.28 ITEM 17.
13. THE PERMITTEE SHALL SUBMIT ALL APPLICABLE DOCUMENTS REQUIRED UNDER SECTION 1-05.3 OF THE STANDARD SPECIFICATIONS PRIOR TO CONSTRUCTION. A MATERIAL SOURCE FORM FOR ALL MATERIALS TO BE PLACED IN THE RIGHT OF WAY AND MIX DESIGNS FOR ALL ASPHALT, CONCRETE AND AGGREGATES TO BE PLACED IN THE RIGHT OF WAY MUST BE SUBMITTED TO THE SEATTLE DEPARTMENT OF TRANSPORTATION FOR REVIEW AND APPROVAL PRIOR TO BEGINNING CONSTRUCTION. A REVISED MATERIAL SOURCE FORM AND MIX DESIGNS MUST BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF ANY SUBSTITUTE MATERIALS.
14. THE PERMITTEE SHALL NOTIFY THE SEATTLE FIRE DEPARTMENT DISPATCHER (206-386-1495) AT LEAST TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL WATER SERVICE INTERRUPTIONS, HYDRANT SHUTOFFS, AND STREET CLOSURES OR OTHER ACCESS BLOCKAGE. THE PERMITTEE SHALL ALSO NOTIFY THE DISPATCHER OF ALL NEW, RELOCATED, OR ELIMINATED HYDRANTS RESULTING FROM THIS WORK.
15. THE PERMITTEE SHALL LOCATE AND PROTECT ALL CASTINGS AND UTILITIES DURING CONSTRUCTION.
16. THE PERMITTEE SHALL CONTACT THE UNDERGROUND UTILITIES LOCATOR SERVICE (811) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
17. IT IS THE SOLE RESPONSIBILITY OF THE PERMITTEE TO VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.
18. THE PERMITTEE SHALL ADJUST ALL EXISTING MAINTENANCE HOLE RIMS, DRAINAGE STRUCTURE LIDS, VALVE BOXES, AND UTILITY ACCESS STRUCTURES TO FINISH GRADE WITHIN AREAS AFFECTED BY THE PROPOSED IMPROVEMENTS.
19. THE PERMITTEE SHALL FOLLOW SPU CORE TAP PROCEDURES FOR ALL NEW CONNECTIONS TO EXISTING SEWER OR DRAINAGE MAINS OR STRUCTURES. CONTRACTORS ARE NOT ALLOWED TO CORE INTO MAINS OR STRUCTURES WITHOUT PRIOR APPROVAL FROM SPU DWW. TO SCHEDULE CORE CUT CONTACT SPU-DWW AT 206-615-0511 A MINIMUM OF 2 BUSINESS DAYS IN ADVANCE.
20. ALL UTILITY SERVICE CONNECTIONS SHOWN ON THIS PLAN REQUIRE SEPARATE PERMITS.
21. THE PERMITTEE SHALL PROVIDE FOR ALL TESTING AS REQUIRED BY THE STREET USE INSPECTOR.
22. INSPECTION AND ACCEPTANCE OF ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL BE DONE BY REPRESENTATIVES OF THE CITY OF SEATTLE. IT SHALL BE THE PERMITTEE'S RESPONSIBILITY TO COORDINATE AND SCHEDULE APPROPRIATE INSPECTIONS ALLOWING FOR PROPER ADVANCE NOTICE. THE SEATTLE DEPARTMENT OF TRANSPORTATION STREET USE INSPECTOR MAY REQUIRE REMOVAL AND RECONSTRUCTION OF ANY ITEMS PLACED IN THE RIGHT OF WAY THAT DO NOT MEET CITY STANDARDS OR THAT WERE CONSTRUCTED WITHOUT APPROPRIATE INSPECTIONS.
23. THE PERMITTEE SHALL PROVIDE A PLAN FOR STORMWATER AND EROSION CONTROL AND INSTALL, MAINTAIN AND REMOVE TEMPORARY FACILITIES PER SECTION 8-01. AS CONSTRUCTION PROGRESSES AND CONDITIONS DICTATE, ADDITIONAL CONTROL FACILITIES MAY BE REQUIRED. DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITTEE TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY THE PERMITTEE'S ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES THAT MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES.
24. ALL DISTURBED SOILS MUST BE AMENDED PER STANDARD PLAN 142 AND SECTION 8-02 OF THE STANDARD SPECIFICATIONS UNLESS WITHIN ONE FOOT OF A CURB OR SIDEWALK, THREE FEET OF A UTILITY STRUCTURE (E.G. WATER METER, UTILITY POLE, HAND HOLE, ETC.), OR THE DRIPLINE OF AN EXISTING TREE.
25. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CITY OF SEATTLE TRAFFIC CONTROL MANUAL FOR IN-STREET WORK. AN APPROVED TRAFFIC CONTROL PLAN WILL BE REQUIRED FOR ALL ARTERIAL STREETS, HIGH IMPACT AREAS AND CONSTRUCTION HUBS PRIOR TO BEGINNING CONSTRUCTION.
26. PERMITTEE SHALL NOTIFY KING COUNTY METRO AT 206- 477-1140 FOURTEEN DAYS IN ADVANCE OF ANY IMPACT TO TRANSIT OPERATIONS. CALL 206-477-1150 FOR ANY COORDINATION RELATED TO KING COUNTRY METRO TROLLEY (INCLUDING SLU AND FIRST HILL STREET CAR). CONTACT KING COUNTY METRO TWO MONTHS PRIOR FOR ANY TROLLEY DE-ENERGIZING REQUESTS.
27. COORDINATE PARKING/LOADING SIGN(S) AND PAY STATION REMOVAL / RELOCATION AND INSTALLATION WITH SEATTLE DEPARTMENT OF TRANSPORTATION CURB SPACE MANAGEMENT AT 206-684-5370 WITH AT LEAST 10 BUSINESS DAYS NOTICE. SIGNPOSTS ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD PLANS 616, 620, 621A, 621B, 625, & 626.
28. ALL STREET NAME SIGNS MUST BE INSTALLED BY SEATTLE DEPARTMENT OF TRANSPORTATION AT THE PERMITTEE'S EXPENSE.
29. ALL WORK PERFORMED BY SEATTLE CITY LIGHT, SEATTLE PUBLIC UTILITIES, AND OTHER UTILITIES TO INSTALL, REPAIR, REMOVE OR RELOCATE UTILITIES SHALL BE DONE AT THE PERMITTEE'S EXPENSE.
30. PERMITTEE MUST CONTACT THE SEATTLE DEPARTMENT OF PARKS AND RECREATION TO APPLY FOR A SEPARATE PERMIT IF WORKING WITHIN A DESIGNATED PARK BOULEVARD.
31. CARE SHALL BE EXERCISED WHEN EXCAVATING OR REMOVING PAVEMENT NEAR EXISTING CHARGED WATER MAINS. CAST IRON WATER MAINS ARE KNOWN TO BE SENSITIVE TO EXCESSIVE VIBRATION. COORDINATE PROTECTION METHODS WITH SPU.

WHERE THE PERMITTEE HAS AN ACTION OR RESPONSIBILITY AS REQUIRED BY THE CITY OF SEATTLE GENERAL NOTES, THE PERMITTEE'S CONTRACTOR SHALL COMPLETE THOSE ACTIONS OR RESPONSIBILITIES ON BEHALF OF THE PERMITTEE.

GENERAL PSE NOTES

1. CONTACT MAPREQUEST@PSE.COM FOR UPDATED GAS MAPS OF AREA.
2. MAINTAIN A MINIMUM 1' VERTICAL SEPARATION WHEN CROSSING GAS MAINS OR SERVICES.
3. MAINTAIN A MINIMUM 3' HORIZONTAL SEPARATION WHEN RUNNING PARALLEL TO GAS MAINS OR SERVICES.
4. IF HP OR > 4" PIPE IS ENCOUNTERED, PLEASE CONTACT PSE PI INSPECTOR BEFORE WORKING NEAR HP OR > 4" GAS MAINS:

   DOWNTOWN SEATTLE:
   GLENN HUDEN | 206-396-4159 | GLENN.HUDEN@PSE.COM

   SOUTH SEATTLE:
   TROY PETERSON | 206-396-0730 | TROY.PETERSON@PSE.COM

   NORTH SEATTLE:
   MITCH BALZER | 253-377-9539 | MITCHELL.BALZER@PSE.COM
5. COORDINATE WITH PSE CUSTOMER CONSTRUCTION SERVICES AT 1-888-321-7779 AND A PSE PROJECT MANAGER FOR RELOCATION OF GAS MAINS AND SERVICES AS NEEDED.
6. LOCATE AND PROTECT ALL GAS FACILITIES IN THE FIELD

CITY OF SEATTLE WATER SERVICE NOTES

1. APPLICATION FOR A NEW METERED WATER SERVICE AND PAYMENT OF ALL FEES IS REQUIRED BEFORE SERVICE WILL BE AVAILABLE.
2. APPLICANT WILL NEED A WATER AVAILABILITY CERTIFICATE (WAC) AND LEGAL DESCRIPTION OF PROPERTY WHEN SUBMITTING THE APPLICATION. TO OBTAIN A WAC, PLEASE CONTACT THE DEVELOPMENT SERVICES OFFICE AT (206) 684-3333 OR SPUWaterAvailability@seattle.gov.
3. ALL WATER SERVICES SHALL BE LOCATED IN THE PUBLIC RIGHT OF WAY AND WITHIN THE FRONTAGE OF THE PARCEL BEING SERVED.
4. WATER SERVICES SERVING PARCELS WITHOUT FRONTAGE TO THE PUBLIC RIGHT OF WAY (SUCH AS UNIT LOT SUBDIVISIONS) OR LANDLOCKED PARCELS SHALL BE SERVED BY A PRIVATE WATER SERVICE EXTENDING FROM THE WATER METER TO THE PARCEL BEING SERVED. THE WATER SERVICE SHALL BE INSTALLED IN A DEDICATED EASEMENT. THE EASEMENT SHALL BE OBTAINED BY THE DEVELOPER, RECORDED, AND A COPY SHALL BE PROVIDED TO SEATTLE PUBLIC UTILITIES (SPU) AT THE TIME OF APPLICATION SUBMITTAL.
5. ALL WATER SERVICES PIPING ON PROPERTY MUST BE INSPECTED PRIOR TO BACKFILLING TRENCH. CONTACT (206) 684-5800 TO REQUEST AN INSPECTION.
6. CUSTOMERS ARE REQUIRED TO INSTALL AN APPROVED AIR GAP OR REDUCED-PRESSURE BACKFLOW ASSEMBLY (RPBA/RPDA) ON ALL WATER SERVICE CONNECTIONS POSING A HIGH HEALTH CROSS-CONNECTION HAZARD (PURSUANT TO WAC 246-290-490). BACKFLOW PREVENTION IS ALSO REQUIRED ON WATER SERVICE CONNECTIONS SUCH AS FIRE SERVICES, IRRIGATION SERVICES, BUILDINGS EXCEEDING THREE STORIES OR 30 FT. IN HEIGHT ABOVE THE METER (MEASURED TO THE HIGHEST WATER FIXTURE), AND MAY BE REQUIRED FOR OTHER WATER SERVICES. SPU AND KING COUNTY HEALTH DEPARTMENT (KCHD) ARE THE ADMINISTRATIVE AUTHORITIES ENGAGED IN A JOINT PROGRAM IDENTIFYING ACTUAL AND POTENTIAL CROSS-CONNECTIONS BETWEEN THE PUBLIC WATER SUPPLY AND POSSIBLE SOURCES OF CONTAMINATION. FOR ANSWERS TO SPECIFIC CROSS-CONNECTION CONTROL QUESTIONS OR TO REQUEST AN INSPECTION, PLEASE CALL (206) 684-3536.

CITY OF SEATTLE WATER NOTES

UNLESS OTHERWISE NOTED

1. ALL MATERIALS FOR WATER DISTRIBUTION MUST BE NEW AND IN ACCORDANCE WITH SECTIONS 7- 11 TO 7-15 AND 9-30 OF THE CITY OF SEATTLE STANDARD SPECIFICATIONS.
2. PIPE (W) 4" AND LARGER MUST BE DUCTILE IRON PIPE (DIP) CLASS 52 CONFORMING TOAWWA C-151 WITH DOUBLE THICK CEMENT MORTAR LINING CONFORMING TO AWWA C-104. JOINTS MUST BE RESTRAINED JOINT. LATERALS FOR HYDRANTS AND 4" AND LARGER SERVICES MUST BE DIP WITH MECHANICAL JOINTS (MJ).
3. FITTINGS ON RESTRAINED JOINTED (RJ) PIPE (W) 4" AND LARGER MUST BE DUCTILE IRON, RESTRAINED JOINTED FITTINGS. RJ FITTINGS MUST CONFORM TO STANDARD SPECIFICATIONS 9- 30.2(3). MECHANICALLY JOINTED (MJ) FITTINGS MUST BE DUCTILE IRON AND CONFORM TO AWWA C-110 AND C-111, OR AWWA C-153. ALL RJ AND MJ FITTINGS MUST BE DOUBLE- THICK CEMENT MORTAR LINED CONFORMING TO AWWA C-104.
4. ALL MECHANICAL JOINTS ON DUCTILE IRON PIPE MUST BE RESTRAINED WITH WEDGE RESTRAINT GLANDS (WRG). WEDGE RESTRAINT GLANDS MUST NOT BE USED ON CAST IRON PIPE.
5. PIPE (W) 4" AND LARGER MUST BE SUBJECT TO SEATTLE PUBLIC UTILITIES TASTE AND ODOR TESTING PROCEDURE PER STANDARD SPECIFICATIONS 7-11.2(2) AND 7-11.2(3).
6. ALL MATERIAL MUST BE SUPPLIED BY CONTRACTOR EXCEPT AS NOTED ON CITY OF SEATTLE STANDARD PLAN 300 SERIES.
7. ALL CONNECTIONS TO EXISTING WATER MAINS WILL BE MADE BY SPU IN ACCORDANCE WITH CITY OF SEATTLE STANDARD PLAN 300 SERIES.
8. FOUR WEEKS PRIOR TO LAYING PIPE THE CONTRACTOR MUST:
   8.1. IN THE PRESENCE OF THE SPU RESIDENT ENGINEER, EXPOSE THE EXISTING WATERMAIN TO DETERMINE ITS ELEVATION AND ALIGNMENT AT CONNECTION POINTS. THE CONTRACTOR MUST EXPOSE THE PIPE ALL AROUND FOR SPU TO OBTAIN OUTSIDE DIAMETER AT THE SAME TIME.
   8.2. PROVIDE ALL CONTROL SURVEYS REQUIRED TO DEFINE THE ALIGNMENT AND ELEVATIONS OF THE WATER MAIN IN CONFORMANCE WITH THE APPROVED PLAN. THE SURVEYS MUST BE PERFORMED BY A SURVEYOR LICENSED BY THE STATE OF WASHINGTON. ALL REFERENCE MARKS MUST BE PRESERVED DURING CONSTRUCTION. A GRADE SHEET, IN ACCEPTABLE FORMAT, MUST BE PROVIDED TO SPU PRIOR TO BEGINNING WORK.
9. WATER/SEWER SEPARATION MUST BE PER COS STANDARD PLAN 286A. IF A SEWER OR SIDE SEWER IS ENCOUNTERED IN THE WM TRENCH, CONTACT SPU RESIDENT ENGINEER FOR DIRECTION.
10. CONTRACTOR MUST USE A WAX TAPE COATING SYSTEM ON VALVE CONNECTIONS (FLANGED AND MJ) AS SPECIFIED IN STANDARD SPECIFICATIONS SECTION 7- 11.3(8)A TO FULLY ENCAPSULATE FLANGES, BOLTS, MJ FOLLOWERS, AND/OR WRGS.
11. CONCRETE THRUST BLOCKING FOR VERTICAL BEND FITTINGS MUST BE PER CITY OF SEATTLE STANDARD PLAN #330A & 330B.
12. CONCRETE THRUST BLOCKING FOR HORIZONTAL FITTINGS MUST BE PER CITY OF SEATTLE STANDARD PLAN #331A & 331B.
13. IF DEFLECTING PIPE JOINTS FOR CURVES, HORIZONTAL AND VERTICAL ANGLE POINTS MUST BE CONSTRUCTED BY DEFLECTING A MAXIMUM ONE-HALF OF THE MANUFACTURER'S ALLOWABLE JOINT DEFLECTION FOR PIPE AND FITTINGS.
14. THE CONTRACTOR MUST POTHOLE OR MAINTAIN AN OPEN EXCAVATION OF 60 FEET MINIMUM AHEAD OF THE WATER MAIN INSTALLATION TO UNCOVER AND OBTAIN LOCATION AND DEPTH INFORMATION FOR EXISTING CROSSING UTILITIES. THE CONTRACTOR MUST NOTIFY THE ENGINEER IF A CONFLICT IS IDENTIFIED TO ALLOW FOR ADJUSTMENTS THAT MAY BE NECESSARY.
15. WHERE THE PROPOSED WATER MAIN DESIGNED ELEVATION OR ADJUSTED ELEVATION CROSSES THROUGH THE LOCATION OF EXISTING WATER SERVICES, THE CONTRACTOR MUST COORDINATE WORK WITH THE SPU RESIDENT ENGINEER.
16. ALL WATER MAINS MUST BE PRESSURE TESTED IN ACCORDANCE WITH SECTION 7-11.3(11) AND DISINFECTED IN ACCORDANCE WITH SECTION 7-11.3(12) OF THE CITY OF SEATTLE STANDARD SPECIFICATIONS. ALL PRESSURE TESTING MUST BE DONE IN THE PRESENCE OF THE SPU RESIDENT ENGINEER. THE CONTRACTOR MUST PROVIDE PLUGS AND TEMPORARY BLOWOFF ASSEMBLIES FOR PRESSURE TESTING AND DISINFECTION. SEE COS STD PLAN 300 FOR FLUSHING CONNECTION DETAILS.
17. INSTALL CORROSION PROTECTION AS DETAILED IN THE DRAWINGS.

Call 811 two business days before you dig

JACKSON | MAIN ARCHITECTURE
311 FIRST AVENUE SOUTH
SEATTLE, WA 98104
t 206.324.4800
WWW.JACKSONMAIN.COM

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com

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2707 W. COMMODORE WAY
SEATTLE, WA 98199

DATE	NO.	DESCRIPTION
06/02/23	1	BID ADDENDUM
06/16/23	2	BID ADDENDUM
10/04/23	3	IFC SET
02/23/24	4	CONSTRUCTION BULLETIN #6

JENIFER R. CLAPHAM
STATE OF WASHINGTON
40799
REGISTERED
PROFESSIONAL ENGINEER
2024-02-22

SDCI 6826187-CN

PROJECT NO.:
PROJECT MGR.:
DRAWN BY:
CHECKED BY:

NOTES

C101

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CITY OF SEATTLE STREET LIGHTING GENERAL NOTES:

1. ALL DISCONNECTIONS: TEMPORARY OR FINAL SERVICE CONNECTIONS WILL BE MADE BY SEATTLE CITY LIGHT (SCL) AT PROJECT'S EXPENSE. COORDINATE ALL ENERGIZING AND DE-ENERGIZING OF STREET LIGHTING SERVICE WITH SCL ELECTRICAL SERVICE REPRESENTATIVE AND STREETLIGHT ENGINEER FIFTEEN (15) WORKING DAYS IN ADVANCE. ADDITIONAL TIME MAY BE NEEDED FOR CREW SCHEDULING AND MOBILIZATION.
2. CONTRACTOR MUST MAKE PRIOR COORDINATION FOR FLOOD OR STREETLIGHT REMOVAL. CONTRACTOR MUST MAKE PRIOR DELIVERY COORDINATION FOR SALVAGED STREETLIGHT-RELATED MATERIALS TO SEATTLE CITY LIGHT SALVAGE YARD AT 4TH AVE S & S SPOKANE ST, 98134. CONTACT SALVAGE COORDINATOR AT 206-386-1765. NO ARTERIAL STREETLIGHT MAY BE DISABLED WITHOUT PRIOR APPROVAL FROM SEATTLE DEPARTMENT OF TRANSPORTATION, (SDOT).
3. EXISTING STREET LIGHTING SYSTEM SHALL BE MAINTAINED DURING CONSTRUCTION.
4. WORK MUST BE SCHEDULED SUCH THAT NO TWO (2) ADJACENT OR OPPOSITE STREETLIGHTS ARE DISABLED AT ANY ONE TIME.
5. ANY EXCAVATION IN PROXIMITY TO AN EXISTING STREETLIGHT POLE MUST BE DONE WITHOUT UNDERMINING ITS STABILITY. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY STABILIZING SUPPORT.
6. INSTALLATION OF UNDERGROUND STREETLIGHT SYSTEMS, AND STREETLIGHT SYSTEM GROUNDING AND BONDING MUST BE PER SEATTLE CITY LIGHT (SCL) CONSTRUCTION STANDARD 1714.50.
7. ALL WIRING, INCLUDING STREET LIGHTING, PEDESTRIAN LIGHTING AND FESTOON LIGHTING CIRCUITS MUST BE CLEARLY LABELED PER SEATTLE CITY LIGHT (SCL) CONSTRUCTION STANDARD 1714.10.
8. EACH LUMINAIRE MUST BE FUSED PER (SCL) CONSTRUCTION STANDARD 1730.00.
9. STREETLIGHT HANDHOLE AND CONDUIT REQUIREMENTS MUST CONFORM TO SCL CONSTRUCTION STANDARD 1716.07.
10. PULL TAPE MUST BE INSTALLED THROUGH VACANT CONDUIT CAPPED PER (SCL) CONSTRUCTION STANDARD U2-11.40/NDK-40.
11. MAINTAIN MINIMUM HORIZONTAL & VERTICAL CLEARANCES BETWEEN SCL UNDERGROUND STRUCTURES AND VARIOUS OTHER UTILITY STRUCTURES PER SCL CONSTRUCTION STANDARD 0214.00.
12. FOR STREET LIGHTING INSPECTIONS CONTACT SCL ELECTRICAL REVIEWER TEN (10) WORKING DAYS IN ADVANCE.
13. CONTRACTOR MUST CALL FOR AN ELECTRICAL REVIEWER INSPECTION OF THE STREET LIGHTING SYSTEM AT VARIOUS STAGES OF INSTALLATION/CONSTRUCTION OR AS INSTRUCTED BY THE SCL INSPECTOR.
14. CONTRACTOR MUST PROVIDE AN OPERATOR AND MAN LIFT TRUCK FOR USE DURING INSPECTION OF INSTALLED STREETLIGHT FACILITIES.
15. CONTRACTOR MUST ASSIST THE INSPECTOR DURING INSPECTIONS, COMMISSIONING, AND FINAL CONNECTION PHASES OF THE PROJECT AS INSTRUCTED BY THE INSPECTOR. SUCH ASSISTANCE WILL INCLUDE, BUT NOT BE LIMITED TO OPENING HANDHOLES, MANHOLES AND VARIOUS ACCESS COVERS, DISCONNECTING AND RECONNECTING FUSE HOLDERS AND MECHANICAL SPLICE CONNECTIONS, VERIFYING CONDUIT RUNS, ETC.
16. PRIOR TO REQUESTING FINAL STREETLIGHT SERVICE CONNECTION, CONTRACTOR MUST CORRECT ALL PUNCH LIST ITEMS AND CALL FOR A RE-INSPECTION WHERE REQUIRED BY THE INSPECTOR. CONTRACTOR MUST PREPARE A SIGNED AS-BUILT AND WIRING DIAGRAM WHICH INCLUDES WHICH DUCT IS USED IN EACH DUCT BANK.

GENERAL KING COUNTY METRO NOTES

1. ANY CONSTRUCTION OR INSTALLATION ACTIVITIES AFFECTING TRANSIT OPERATIONS OR FACILITIES MUST BE COORDINATED THROUGH METRO TRANSIT CONSTRUCTION INFORMATION CENTER. FOR NOTIFICATION INFORMATION AND GUIDELINES, PLEASE VISIT: http://www.kingcounty.gov/transportation/kcdot/metrotransit/construction.aspx OR CONTACT CONSTRUCTION COORDINATORS AT 206-477-1140. PLEASE PROVIDE FIVE BUSINESS DAYS NOTIFICATION FOR BUS REROUTES AND THREE BUSINESS DAYS NOTIFICATION FOR BUS STOP IMPACTS
2. TO SCHEDULE SHELTER REMOVAL, PLEASE CONTACT plansreview@kingcounty.gov. PLEASE NOTE THAT METRO REQUIRES 3 WEEKS PRIOR NOTIFICATION FOR REMOVAL.
3. PLEASE SEE THE FOLLOWING URL FOR STANDARD CONSTRUCTION DETAILS: http://www.kingcounty.gov/depts/transportation/metro/design-construction-standards/passenger-facilities/construction.aspx
4. ALL METRO FOOTINGS MUST BE INSPECTED BY METRO INSPECTORS BEFORE ANY CONCRETE IS POURED. PLEASE CONTACT METRO INSPECTORS DIRECTLY AT 206-263-2381 OR 206-507-6550 OR VIA EMAIL AT tbir@kingcounty.gov. PLEASE NOTE THAT METRO REQUIRES NOTICE OF 3 WORKING DAYS TO SCHEDULE INSPECTION.
5. AFTER FOOTING INSPECTION AND COMPLETED CONSTRUCTION, PLEASE CONTACT plansreview@kingcounty.gov TO SCHEDULE SHELTER FRAME INSTALLATION AND BUS STOP FLAGPOST INSTALLATION.
6. FOR ANY CIVIL, STRUCTURAL OR ELECTRICAL DESIGN QUESTIONS, PLEASE CONTACT PAUL ENG AT (206) 477-5953 FOR ASSISTANCE.

CITY OF SEATTLE DRAINAGE CB AND INLET NOTES

UNLESS OTHERWISE NOTED

1. CATCH BASIN CONNECTIONS AND INLET CONNECTIONS MUST BE 8" DIAMETER. PIPE MUST BE CEMENT MORTAR LINED DUCTILE IRON CLASS 50 (MIN) PER SPECIFICATION 9-05.3. FITTINGS MUST BE CEMENT MORTAR LINED DUCTILE IRON. JOINTS MUST BE RUBBER GASKET, PUSH-ON OR MECHANICAL.
2. BEDDING MUST BE CLASS D WITH SELECT NATIVE MATERIAL.
3. CATCH BASIN CONNECTIONS MUST BE PLACED AT A MINIMUM SLOPE OF 2% AND A MAXIMUM SLOPE OF 100% PER STANDARD PLAN NO. 261 AND SPECIFICATION 7-08.3(4).
4. INLET CONNECTIONS MUST BE PLACED AT A MINIMUM SLOPE OF 5% AND A MAXIMUM SLOPE OF 50% PER SPECIFICATION 7-08.3(5).
5. CATCH BASINS AND INLETS MUST BE LOCATED PER STANDARD PLAN NO. 260A AND 260B.
6. TELEVISION INSPECTION OF CATCH BASIN CONNECTIONS MUST BE PER SPECIFICATION 7-17.3(3)G.
7. CONTRACTORS ARE NOT ALLOWED TO CORE INTO MAINS OR STRUCTURES WITHOUT PRIOR APPROVAL FROM SPU. TO SCHEDULE CORE TAPS, CONTACT SPU AT 206-615-0511 A MINIMUM OF 2 BUSINESS DAYS IN ADVANCE. SPU SHALL BE ON SITE PRIOR TO THE START OF CONTRACTOR PERFORMED CORE TAP. CONTRACTORS PERFORMING CORE TAPS MUST PROVIDE THE COUPON OF REMOVED MATERIAL TO SPU.

CITY OF SEATTLE MAINLINE CONVEYANCE AND DETENTION NOTES

UNLESS OTHERWISE NOTED

1. MAINLINE PIPE, CULVERT PIPE AND DETENTION PIPE MUST BE AS APPROVED BY SEATTLE PUBLIC UTILITIES (SPU) AND AS SHOWN ON THE PROFILE.
   A. VCP MUST BE PER SPECIFICATION 9-05.5.
   B. DIP MUST BE PER SPECIFICATION 9-05.3. FITTINGS MUST BE CEMENT MORTAR LINED DUCTILE IRON. JOINTS MUST BE RUBBER GASKET, PUSH-ON OR MECHANICAL.
   C. RCP MUST BE PER SPECIFICATION 9-05.2.
   D. POLYPROPYLENE PIPE PER SPECIFICATION 9-05.17. POLYPROPYLENE PIPE DETENTION, FOR PIPE DIAMETERS 30" AND GREATER MUST BE TRIPLE WALL (SMOOTH INTERIOR), CORRUGATED STRUCTURAL CORE, AND SMOOTH EXTERIOR) POLYPROPYLENE PIPE. ALL JOINTS MUST BE BELL AND SPIGOT AND CONFORM TO ASTM D3212.
2. BEDDING MUST BE CLASS B FOR ALL PIPE, EXCEPT DUCTILE IRON PIPE THAT IS LESS THAN 30-INCH ID, WHICH MAY BE CLASS D. SEE STANDARD PLAN NO. 285 AND SPECIFICATION 7-17.3(1). CONTROLLED DENSITY FILL (CDF) MUST NOT BE IN CONTACT WITH THE PIPE. BEDDING MATERIAL MUST BE:
   A. MINERAL AGGREGATE TYPE 22 FOR VCP AND POLYPROPYLENE PIPE.
   B. MINERAL AGGREGATE TYPE 9 FOR RCP.
   C. SELECT NATIVE OR MINERAL AGGREGATE TYPE 9 OR MINERAL AGGREGATE TYPE 22 FOR DIP.
3. TEES ON NEW PIPE LESS THAN 24" IN DIAMETER MUST BE PREFABRICATED. ALL NEW CONNECTIONS TO EXISTING MAINLINES OR STRUCTURES, OR CONNECTIONS TO NEW MAINLINES WITHOUT PREFABRICATED TEES, MUST BE PER SPU CORE TAP PROCEDURES.
4. DETENTION PIPE AND FLOW CONTROL STRUCTURES MUST BE PER STANDARD PLAN NO. 270, 270A AND 272B.
5. ALL PIPELINES AND APPURTENANCES MUST BE CLEANED AND TESTED AFTER BACKFILLING PER SPECIFICATION 7-17.3(3). DEFLECTION TESTING OF FLEXIBLE PIPE MUST BE NO LESS THAN 30 DAYS AFTER BACKFILL AND PRIOR TO PAVING PER SPECIFICATION 7-17.3(3)F. TELEVISION INSPECTION OF MAINLINE MUST BE PER SPECIFICATION 7-17.3(3)G.
6. WHERE A NEW PIPE CLEARS AN EXISTING OR NEW UTILITY BY 6" OR LESS, POLYETHYLENE PLASTIC FOAM MUST BE PLACED AS A CUSHION BETWEEN THE UTILITIES PER SPECIFICATION 1-07.17(2).
7. PIPE 12" DIAMETER AND LARGER TO BE ABANDONED MUST BE FILLED WITH A PUMPABLE, FLOWABLE CEMENT SLURRY. SEE SPECIFICATION 2-02.3(5).

CITY OF SEATTLE SIDE SEWER NOTES

(FOR USE WITH MAINLINE CONVEYANCE AND DETENTION NOTES)

UNLESS OTHERWISE NOTED

1. ALL WORK MUST CONFORM TO THE SEATTLE DEPARTMENT OF CONSTRUCTION AND INSPECTIONS (SDCI) DIRECTOR'S RULE 4-2011, REQUIREMENTS FOR DESIGN AND CONSTRUCTION OF SIDE SEWERS.
2. THE PERMITTEE MUST MAINTAIN DRAINAGE AND SEWER SERVICE TO PRIVATE PROPERTY DURING CONSTRUCTION.
3. RELAY OR REPAIR OF SERVICE DRAINS/SIDE SEWERS NOT SHOWN FOR CONSTRUCTION ON THE APPROVED PLAN MUST BE UNDER SEPARATE PERMIT FROM SDCI.
4. WHEN SHOWN ON THE APPROVED PLAN, RELAY EXISTING SERVICE DRAINS/SIDE SEWERS TO CLEAR OVER OR UNDER THE NEW UTILITY AND RECONNECT WITH SHIELDED FLEXIBLE REPAIR COUPLINGS PER SPECIFICATIONS 7-17.3(2)E AND 9-05.18 AND AS APPROVED BY A REPRESENTATIVE OF THE CITY OF SEATTLE.
5. SERVICE DRAIN/SIDE SEWER PIPE MUST BE OF A MATERIAL APPROVED BY A REPRESENTATIVE OF THE CITY OF SEATTLE, FROM THE FOLLOWING, IN ORDER OF PRECEDENCE:
   A. DIP WHEN MINIMUM CLEARANCES REQUIRED IN SPECIFICATION 1-07.17(2) ARE NOT MET. DIP MUST BE CEMENT MORTAR LINED DUCTILE IRON PIPE PER SPECIFICATION 9-05.3. JOINTS MUST BE RUBBER GASKET, PUSH-ON OR MECHANICAL. BEDDING MUST BE CLASS D PER SPECIFICATION 7-17.3(1)D.
   B. MATCH EXISTING PIPE MATERIAL. BEDDING MUST BE CLASS B PER SPECIFICATION 7-17.3(1) FOR EACH PIPE MATERIAL.
   C. PVC PIPE AND FITTINGS MUST BE PER ASTM D 3034, SDR35 (MIN), WITH RUBBER GASKET JOINTS OR SCHEDULE 40 PER ASTM D1785 WITH SOLVENT WELDED JOINTS. BEDDING MUST BE CLASS B PER SPECIFICATION 7-17.3(1)B.
6. SERVICE DRAINS/SIDE SEWERS MUST NOT BE BACKFILLED UNTIL THE PIPE HAS BEEN INSPECTED AND APPROVED AND THE SLOPE, LOCATION AND DEPTH IS RECORDED.
7. THE PERMITTEE IS RESPONSIBLE FOR AS-BUILT RECORD INFORMATION FOR ALL WORK ON SERVICE DRAINS/SIDE SEWERS.

CONSTRUCTION STORMWATER CONTROL (CSC) GENERAL NOTES:

1. A FIRST GROUND DISTURBANCE INSPECTION IS REQUIRED PRIOR TO START OF WORK ON ALL SITES WITH LAND DISTURBING ACTIVITY. SCHEDULE A FIRST GROUND DISTURBANCE INSPECTION FOR AN ISSUED BUILDING PERMIT AT 206-684-8900 OR ONLINE AS DESCRIBED AT http://www.seattle.gov/sdci/inspections/site-development-inspections
2. THE APPLICANT SHALL DESIGNATE AN EROSION AND SEDIMENT CONTROL (ESC) SUPERVISOR WHO SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS). FOR LARGE CONSTRUCTION PROJECTS, THE ESC SUPERVISOR SHOULD BE A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL). PROVIDE THE NAME AND PHONE NUMBER OF THE ESC SUPERVISOR TO THE SITE INSPECTOR AT THE FIRST GROUND DISTURBANCE INSPECTION. ADDITIONALLY, ALL STORMWATER MANAGEMENT AND EARTHWORK ACTIVITIES SHALL BE CONDUCTED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE SREMP TO PROTECT HUMAN HEALTH AND THE ENVIRONMENT.
3. BMPS SHALL BE INSTALLED PRIOR TO STARTING CONSTRUCTION TO ENSURE SEDIMENT-LADEN WATER DOES NOT LEAVE THE PROJECT SITE OR ENTER ROADSIDE DITCHES, STORM DRAINS, SURFACE WATERS, OR WETLANDS.
4. THE BMPS INCLUDED IN THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. THE APPLICANT IS RESPONSIBLE FOR ENSURING THAT BMPS ARE MODIFIED AS NEEDED FOR UNEXPECTED STORM EVENTS OR OTHER UNFORESEEN CIRCUMSTANCES, AND TO ACCOUNT FOR CHANGING SITE CONDITIONS.
5. ANY AREAS OF DISTURBED SOIL THAT WILL NOT BE WORKED FOR TWO CONSECUTIVE DAYS DURING THE WET SEASON (OCT 1 TO APRIL 30) OR SEVEN DAYS DURING THE DRY SEASON (MAY 1 TO SEPT 30) SHALL BE IMMEDIATELY STABILIZED WITH APPROVED BMPS METHODS (E.G. STRAW, MULCH, PLASTIC COVERING, COLD MIX, ETC.)
6. GRADING AND/OR SOIL DISTURBING ACTIVITIES MAY BE LIMITED OR PROHIBITED FOR CERTAIN SITES SUBJECT TO ECA STANDARDS (I.E. ECA STEEP SLOPES, LANDSLIDE PRONE AREAS, ETC.) BETWEEN OCTOBER 31ST AND APRIL 1ST. IF NOTED IN THE GEOTECHNICAL SPECIAL INSPECTIONS REQUIREMENTS, A GRADING SEASON EXTENSION LETTER (GSEL) ISSUED BY SDCI IS REQUIRED FOR ALL GRADING AND/OR SOIL DISTURBING ACTIVITIES DURING THIS PERIOD. THE GEOTECHNICAL SPECIAL INSPECTOR MUST SUBMIT ELECTRONIC APPLICATIONS FOR A GSEL USING THE SDCI PROJECT PORTAL. ALLOW FOUR TO SIX WEEKS FOR PROCESSING. FAILURE TO OBTAIN THE GSEL PRIOR TO OCTOBER 31 MAY RESULT IN A WORK STOPPAGE.
7. CITY STREETS AND SIDEWALKS SHALL BE KEPT CLEAN AT ALL TIMES. NO MATERIAL SHALL BE STORED ON CITY STREETS OR SIDEWALKS WITHOUT A STREET USE PERMIT FROM THE SEATTLE DEPARTMENT OF TRANSPORTATION (SDOT).
8. POLLUTION CONTROL MEASURES SHALL BE FOLLOWED TO ENSURE THAT NO LIQUID PRODUCTS OR CONTAMINATED WATER ENTERS ANY STORM DRAINAGE FACILITIES OR OTHERWISE LEAVES THE PROJECT SITE. ANY HAZARDOUS MATERIALS OR LIQUID PRODUCTS THAT HAVE THE POTENTIAL TO POLLUTE RUNOFF SHALL BE STORED AND DISPOSED OF PROPERLY.
9. ENSURE THAT WASHOUT FROM CONCRETE TRUCKS IS PERFORMED OFF-SITE OR IN DESIGNATED CONCRETE WASHOUT AREAS ONLY. DO NOT WASH OUT CONCRETE TRUCKS ONTO THE GROUND, OR TO STORM DRAINS OR OPEN DITCHES. DO NOT DUMP EXCESS CONCRETE ONSITE, EXCEPT IN DESIGNATED CONCRETE WASHOUT AREAS.
10. ALL AREAS OF DISTURBED SOIL SHALL BE FULLY STABILIZED WITH THE APPROPRIATE SOIL AMENDMENT AND COVER MEASURES AT COMPLETION OF THE PROJECT. TYPICAL COVER MEASURES INCLUDE LANDSCAPING OR HYDROSEED WITH MULCH.

JACKSON | MAIN ARCHITECTURE
311 FIRST AVENUE SOUTH
SEATTLE, WA 98104
t 206.324.4800
WWW.JACKSONMAIN.COM

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
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SALMON BAY - SOUTH
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JENIFER R. CLAPHAM
STATE OF WASHINGTON
40799
REGISTERED PROFESSIONAL ENGINEER
2024-02-22

SDCI 6826187-CN

PROJECT NO.:
PROJECT MGR.:
DRAWN BY:
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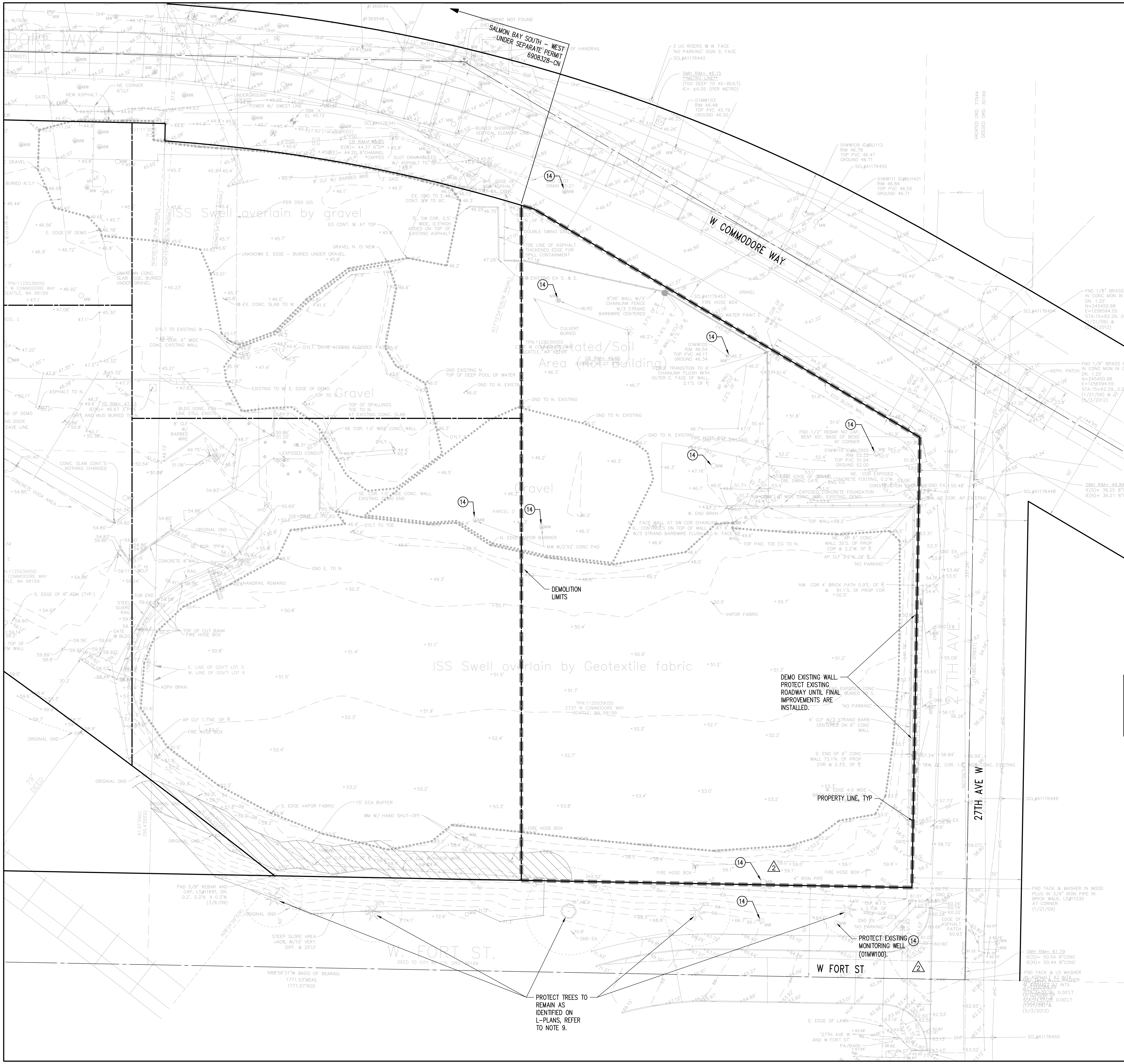
Call 811 two business days before you dig

NOTES

C102

Feb. 22, 2024 - 6:16pm KyleA



LEGEND

- ON-SITE DEMOLITION LIMITS
- PROPERTY LINE

NOTES:

1. ALL EXISTING STRUCTURES, VEGETATION, SURFACE IMPROVEMENTS AND UNDERGROUND STRUCTURES/UTILITIES WITHIN THE DEMOLITION LIMITS SHALL BE DEMOLISHED, UNLESS OTHERWISE NOTED, AND DISPOSED OF OFF-SITE IN A LEGAL MANNER.
2. CONTRACTOR IS ALERTED TO THE PRESENCE OF CONTAMINATION ON THE SITE. REFER TO C100, NOTE 1.
3. DEMOLITION SHALL BE IN CONFORMANCE WITH APPLICABLE REGULATION, CODES, AND DEMOLITION PERMIT REQUIREMENTS.
4. CONTRACTOR SHALL PROVIDE TRAFFIC AND PEDESTRIAN REROUTES AS NECESSARY TO COMPLETE THE WORK, AND OBTAIN APPROVAL FROM THE CITY PRIOR TO BEGINNING WORK. MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS FOR ADJACENT PROPERTIES THROUGHOUT CONSTRUCTION.
5. PROTECT AND MAINTAIN UNINTERRUPTED UTILITY SERVICE TO EXISTING NEIGHBORING BUILDINGS DURING DEMOLITION AND CONSTRUCTION.
6. CONTRACTOR SHALL OBTAIN AND PAY FOR NECESSARY PERMITS TO EXECUTE DEMOLITION, INCLUDING PERMIT TO USE PUBLIC WATER SUPPLY FOR DUST SUPPRESSION.
5. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO DEMOLITION OR CONSTRUCTION ACTIVITIES. ALL EXISTING UTILITIES AND IMPROVEMENTS IN THE PUBLIC RIGHT-OF-WAY, ABOVE AND BELOW GRADE, SHALL BE PROTECTED UNLESS NOTED OTHERWISE.
6. ALL DISTURBED PAVEMENT IN PUBLIC RIGHT-OF-WAY SHALL BE REPLACED PER COS STANDARD PLANS AND SDOT DIRECTOR'S RULE 01-2017 "RIGHT-OF-WAY OPENING AND RESTORATION RULES". REFER TO PROJECT STREET IMPROVEMENT PERMIT (SIP) PLANS FOR FINAL IMPROVEMENTS.
7. CONTRACTOR SHALL PERFORM PRE-CONSTRUCTION AND POST-CONSTRUCTION TELEVISION INSPECTION OF SPU MAINLINE SEWER AND STORM DRAINAGE PIPE LOCATED WITHIN TEN FEET (OR WITHIN TWENTY FEET IF MAINLINES ARE THIRTY FEET OR MORE FROM THE SITE PROPERTY LINE) OF ANY PROPOSED SHORING ELEMENT. TELEVISION INSPECTION SHALL CONFORM TO COS STANDARD SPECIFICATION 7-17.3(3)G. COPIES OF THE TELEVISION INSPECTIONS SHALL BE PROVIDED TO SPU PRIOR TO THE PRECONSTRUCTION MEETING.
8. ANY DAMAGE RESULTING FROM PROJECT DEMOLITION ACTIVITIES TO EXISTING IMPROVEMENTS OR VEGETATION OUTSIDE OF WORK INDICATED ON PLAN SHALL BE REPAIRED/REPLACED IN KIND AT CONTRACTOR'S EXPENSE.
9. REFER TO LANDSCAPE PLANS FOR TREE PROTECTION.
10. MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS FOR ADJACENT PROPERTIES THROUGHOUT CONSTRUCTION.
11. COORDINATE WITH PSE FOR ALL ABANDONING, CAPPING, AND REMOVAL/RELOCATION OF PSE'S GAS SERVICES AS INDICATED.
12. COORDINATE WITH SPU FOR ALL ABANDONING, RETIRING, CAPPING, AND REMOVAL OF SPU'S WATER SERVICES AS INDICATED.
13. CONTRACTOR SHALL COORDINATE WITH ENVIRONMENTAL CONSULTANT FOR WORK AROUND EXISTING MONITORING WELLS, IF NECESSARY, SHALL BE IN ACCORDANCE WITH APPLICABLE WAC AND ECOLOGY REQUIREMENTS.
14. COORDINATE ANY PROTECTION, REMOVAL, CONFIRMATION OF PRIOR REMOVAL, OR RELOCATION OF EXISTING MONITORING WELLS WITH ENVIRONMENTAL CONSULTANT (CRETE). 2
15. CONTRACTOR IS MADE AWARE THAT THE GEOTEXTILE FABRIC COVERING THE ISS REMEDIATION MATERIALS IS AFFIXED VIA LARGE NAILS THAT MAY REQUIRE CONSIDERATION FOR EQUIPMENT OPERATED IN THE AREA.

CAUTION: CONTRACTOR IS ALERTED TO THE FACT THAT WORK WILL BE ACCOMPLISHED AROUND ACTIVE PSE GAS AND ENERGIZED SEATTLE CITY LIGHT (SCL) FACILITIES THAT ARE SERVING EXISTING CUSTOMERS. CONTRACTOR SHALL COORDINATE WITH PSE AND SCL TO DETERMINE WHICH FACILITIES ARE ACTIVE AND ENERGIZED AND SHALL IMPLEMENT SAFETY PROCEDURES PER PSE AND SCL REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH PSE AND SCL TO ENSURE THAT FACILITIES ARE IN PLACE TO MAINTAIN SERVICE TO CUSTOMERS THROUGHOUT CONSTRUCTION.

N

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1 inch = 20 feet

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06/02/23	1	BID ADDENDUM
06/16/23	2	BID ADDENDUM
10/04/23	3	IFC SET
02/23/24	4	CONSTRUCTION BULLETIN #6

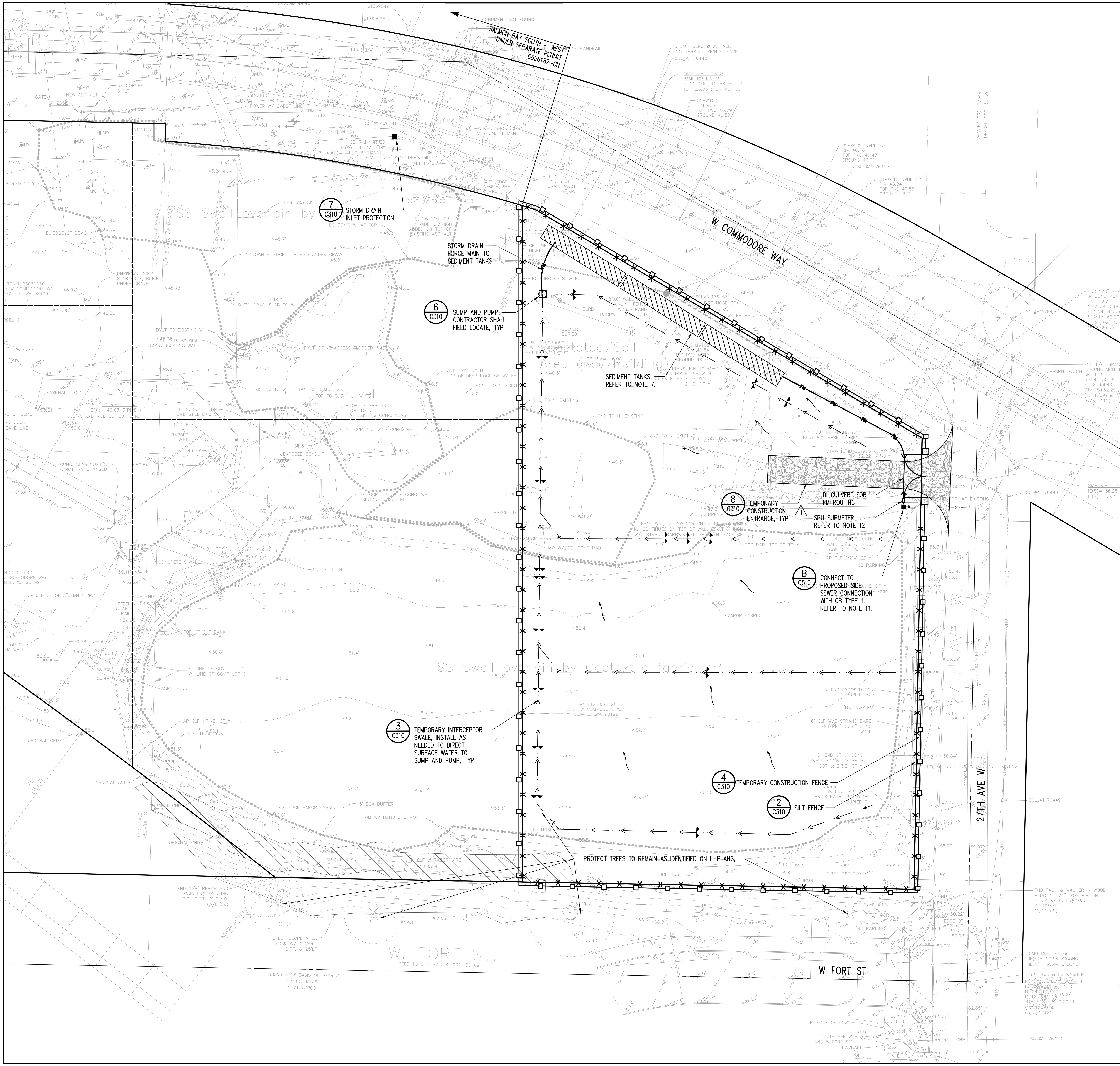
JENIFER R. CLAPHAM
STATE OF WASHINGTON
40799
REGISTERED PROFESSIONAL ENGINEER
2024-02-22

SDCI 6826187-CN

PROJECT NO.:
PROJECT MGR.:
DRAWN BY:
CHECKED BY:

DEMOLITION PLAN

C200



LEGEND:

- PROPERTY LINE
- CONSTRUCTION FENCE
- TEMPORARY INTERCEPTOR SWALE
- GENERAL DIRECTION OF RUNOFF
- STORM DRAIN INLET PROTECTION
- SUMP AND PUMP
- FORCE MAIN
- SEDIMENT TANKS
- TRIANGULAR SILT DIKE
- STABILIZED CONSTRUCTION ENTRANCE
- COMPOST SOCK
- DI CULVERT

NOTES:

1. THIS SITE WAS HISTORICALLY AN OIL STORAGE FACILITY AND RECENTLY UNDERWENT REMEDIATION ACTIVITIES, IN COORDINATION WITH DEPARTMENT OF ECOLOGY, TO REMOVE AND CONTAIN CONTAMINATED SOILS LOCATED ON AND ADJACENT TO THE SITE. IN SITU STABILIZATION/SOLIDIFICATION (ISS) METHODS WERE IMPLEMENTED IN REGIONS OF THE SITE, AND SWELL SPOILS WERE STOCKPILED IN THE SOUTHERN PORTION OF THE SITE NEAR WEST FORT STREET. THESE AREAS ARE DOCUMENTED ON THE TOPOGRAPHIC SURVEY, BUT ARE NOT THE ONLY AREAS ONSITE THAT MAY HAVE CONTAMINATED MATERIALS. SITE GRADING AND UTILITY TRENCH EXCAVATIONS THAT INTERSECT (ISS) AREAS MAY REQUIRE SPECIALIZED EQUIPMENT OR METHODS DUE TO THE HIGH STRENGTH OF THE STABILIZED SOIL (50 TO 800 PSI 28-DAY COMPRESSIVE STRENGTH). PRIOR TO ANY WORK, REFER TO THE SREMP (SOIL AND REMEDIAL ELEMENT MANAGEMENT PLAN), PREPARED BY CRETE (JAMIE STEVENS jamie.stevens@creteconsulting.com), DATED 10/05/2022. A COPY OF THIS DOCUMENT SHALL BE ON SITE DURING CONSTRUCTION. SPECIFICALLY, CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SREMP REQUIREMENTS PERTAINING TO, BUT NOT LIMITED TO, COORDINATION WITH ECOLOGY, WORKER HEALTH AND SAFETY, EARTHWORK PLANNING, DELINEATION AND MANAGEMENT OF POTENTIALLY CONTAMINATED AND UNCONTAMINATED SOILS, CONSTRUCTION STORMWATER MANAGEMENT, AND DOCUMENTATION AND REPORTING REQUIREMENTS.

2. THIS PLAN IS INTENDED TO REFLECT THE MINIMUM EROSION AND SEDIMENTATION CONTROL MEASURES REQUIRED FOR THIS SITE. THE CONTRACTOR IS RESPONSIBLE FOR UPGRADING THESE MEASURES TO ACCOMMODATE SITE CONDITIONS, STORM EVENTS, AND TO PREVENT SEDIMENT AND SEDIMENT LADEN RUNOFF FROM LEAVING THE SITE.

3. CONTROL DEWATERING. A SEPARATE DEWATERING PERMIT IS REQUIRED FOR: ONE ACRE OR GREATER DISTURBED AREA; CONTAMINATED SURFACE AND/OR GROUNDWATER; EXCAVATION GREATER THAN 12 FEET IN DEPTH; SIGNIFICANT VOLUME OF GROUNDWATER; OTHER SITE SPECIFIC CONDITIONS LEADING TO SIGNIFICANT DEWATERING. CONTRACTOR SHALL OBTAIN NECESSARY PERMITS AND APPROVALS FROM SDCI, KCIW, AND ECOLOGY TO PERFORM THE WORK. CONTRACTOR IS RESPONSIBLE FOR DEWATERING OF THE EXCAVATION. CONTRACTOR SHALL ROUTE DEWATERING DISCHARGE TO THE ON-SITE SETTLEMENT AND TREATMENT SYSTEM TO MAINTAIN THE DISCHARGE BELOW REQUIRED TURBIDITY AND TREATMENT REQUIREMENTS AS REQUIRED BY AHJ (SEATTLE, ECOLOGY, KING COUNTY INDUSTRIAL WASTE/KCIW, ETC).

4. AREAS OF EXPOSED SOILS SHALL BE STABILIZED TO PREVENT SEDIMENT FROM BEING TRACKED AROUND OR OFF THE SITE. STABILIZATION BMPS SHALL CONSIST OF, BUT NOT BE LIMITED TO, FILTER FENCES, PLASTIC COVERING, DUST CONTROL, AND/OR SODDING/SEEDING.

5. DEWATERING DISCHARGE TO COMBINED SEWERS SHALL BE METERED PRIOR TO DISCHARGE. CONTACT THE SPU SUBMETER PROGRAM OFFICE AT (206) 684-5089 TO DETERMINE THE REQUIRED METER TYPE, INSTALLATION LOCATION, BILLING INFORMATION, AND TO SCHEDULE AN INSPECTION OF THE METER AFTER INSTALLATION.

6. STORMWATER RUNOFF SHALL BE DIRECTED TO TEMPORARY PUMPS FOR CONVEYANCE TO TREATMENT SYSTEM. CONTRACTOR SHALL FIELD LOCATE AND SIZE PUMPS TO ACCOMMODATE FLOWS ENCOUNTERED. CONTRACTOR SHALL SUPPLY BACKUP PUMPS AS NEEDED.

7. CONTRACTOR SHALL FIELD LOCATE CONSTRUCTION STORMWATER FILTRATION SYSTEMS AND ASSOCIATED STORMWATER STORAGE VOLUME. SYSTEM CAPACITY SHALL BE RELATIVE TO DISTURBED AREA PER LOCAL AND STATE SIZING CRITERIA. FOR THE DISTURBED AREA ENCOMPASSED BY THE LIMITS OF WORK DEPICTED ON THESE PLANS, VOLUME OF STORAGE SHALL BE 55,000 GALLONS. DUE TO THE CHANGING SITE CONDITIONS, THE STORAGE VOLUME SHALL BE ADJUSTED AS NECESSARY BASED ON ACTUAL DISTURBED AREAS, WHICH MAY BE MORE OR LESS THAN THE VOLUME NOTED ABOVE.

   CONTRACTOR SHALL MONITOR DISCHARGE FLOW AND WATER QUALITY OF ALL AUTHORIZED DISCHARGES INTO COMBINED SEWER. INCLUDE SAND FILTERS AND ADDITIONAL SEDIMENTATION TANKS AS REQUIRED TO MEET KCIW DISCHARGE REQUIREMENTS. COORDINATE WITH KCIW FOR MAXIMUM DAILY DISCHARGE RATES.

8. CONTRACTOR MAY ENCOUNTER CONTAMINATED OR IMPACTED GROUNDWATER AND CONSTRUCTION STORMWATER DURING DEWATERING OR EARTHWORK ACTIVITIES. COORDINATE WITH PROJECT'S ENVIRONMENTAL ENGINEER FOR ECOLOGY'S REQUIREMENTS AND LIST OF KNOWN CONTAMINANTS OF CONCERN. CONSTRUCTION STORMWATER MUST BE TESTED, TREATED, AND DISCHARGED AS REQUIRED BY ECOLOGY. REFER TO PROJECT SOIL MANAGEMENT PLAN FOR PROPOSED CONSTRUCTION STORMWATER COLLECTION AND WATER QUALITY TREATMENT REQUIREMENTS.

9. PROTECT PROPERTIES AND RECEIVING WATERS DOWNSTREAM FROM THE DEVELOPMENT SITES FROM EROSION DUE TO INCREASES IN THE VOLUME, VELOCITY, AND PEAK FLOW RATE OF DRAINAGE WATER FROM THE PROJECT SITE.

10. CONTRACTOR SHALL COORDINATE WITH KING COUNTY INDUSTRIAL WASTE (KCIW), DEPARTMENT OF ECOLOGY (DOE), AND CITY OF SEATTLE PRIOR TO DISCHARGING CONSTRUCTION WATER FROM THIS SITE. CONTRACTOR IS RESPONSIBLE FOR OBTAINING DISCHARGE AUTHORIZATION LETTER AND SIDE SEWER PERMIT FOR TEMPORARY DEWATERING (SSPTD), AS REQURED BY KCIW, DOE, SDCI, AND SPU.

11. PROTECT AND MAINTAIN NEW SIDE SEWER DURING CONSTRUCTION. PRIOR TO CONSTRUCTION COMPLETION AND ONCE THE SITE IS STABILIZED, CONTRACTOR SHALL CLEAN AND REPAIR ANY DAMAGE INCURRED DURING CONSTRUCTION TO NEW SIDE SEWER. SIDE SEWER CONSTRUCTION WILL BE COMPLETED UNDER A SEPARATE SIDE SEWER PERMIT.

12. GROUNDWATER DEWATERING TO COMBINED SEWERS MUST BE METERED PRIOR TO DISCHARGE. CONTACT THE SPU SUBMETER PROGRAM OFFICE AT (206) 684-5089 TO DETERMINE THE REQUIRED METER TYPE, INSTALLATION LOCATION, AND BILLING INFORMATION AND TO SCHEDULE AN INSPECTION OF YOUR METER AFTER INSTALLATION.

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PROJECT NO.:
PROJECT MGR.:
DRAWN BY:
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TESC PLAN

C300

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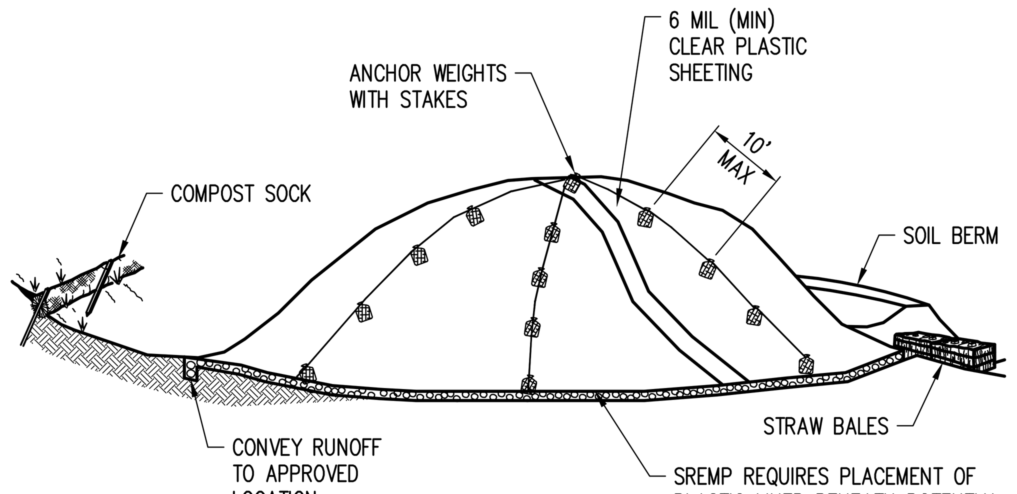
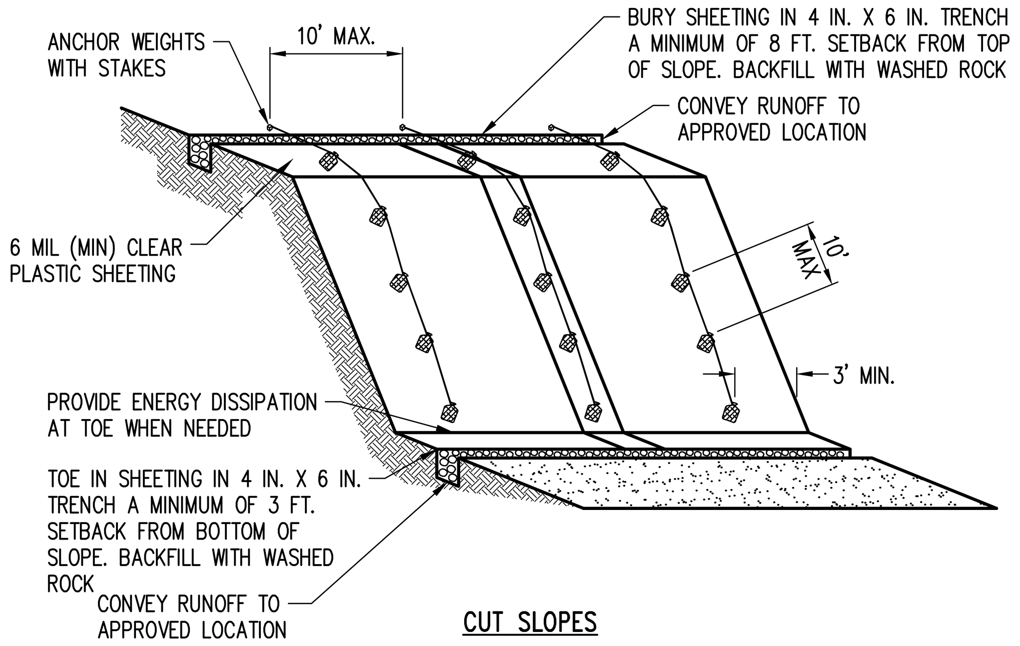


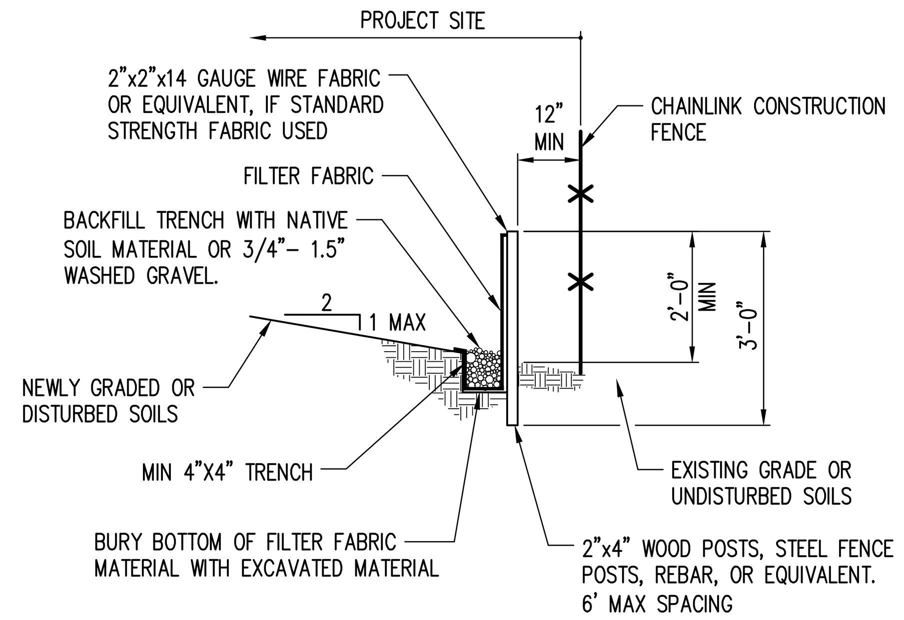
STOCKPILES



CUT SLOPES

STOCKPILE COVER DETAIL (1 / C300)

NTS



TYPICAL CROSS SECTION

NOTE:

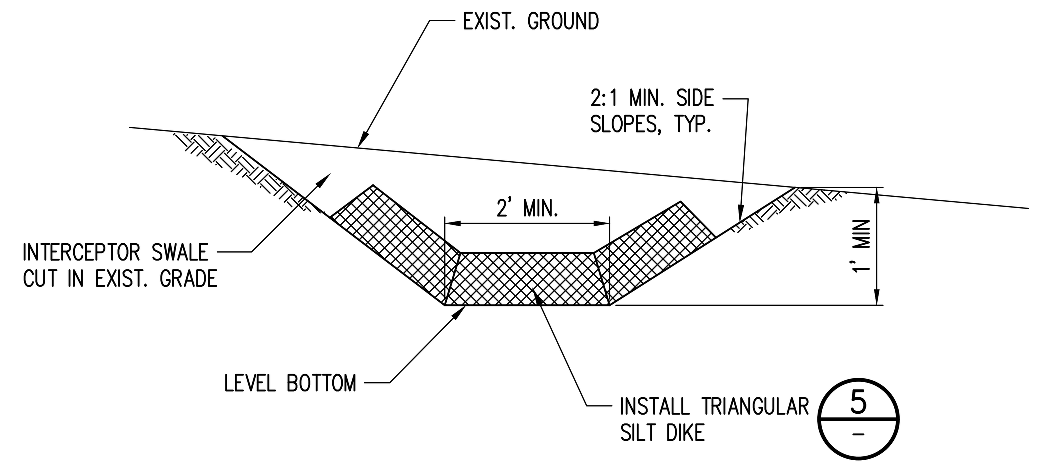
1. SILT FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE.
2. ANGLE SILT FENCE BACK UP THE SLOPE AT THE END OF THE RUN.
3. SILT FENCE SHALL BE REMOVED AT THE END OF THE JOB.
4. WHERE THE FENCE IS INSTALLED, THE SLOPE SHALL BE NO STEEPER THAN 2H:1V.
5. JOINTS IN FILTER FABRIC SHALL BE SPLICED AT POSTS. USE STAPLES, WIRE RINGS, OR EQUIVALENT TO ATTACH FABRIC TO POSTS.

MAINTENANCE STANDARDS

1. ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.
2. IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT TRAP OR POND.
3. IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCURS, REPLACE THE FENCE OR REMOVE THE TRAPPED SEDIMENT.
4. SEDIMENT MUST BE REMOVED WHEN THE SEDIMENT IS 6" HIGH.
5. IF THE FILTER FABRIC HAS DETERIORATED, IT SHALL BE REPLACED.

FILTER FABRIC FENCE DETAIL (2 / C300)

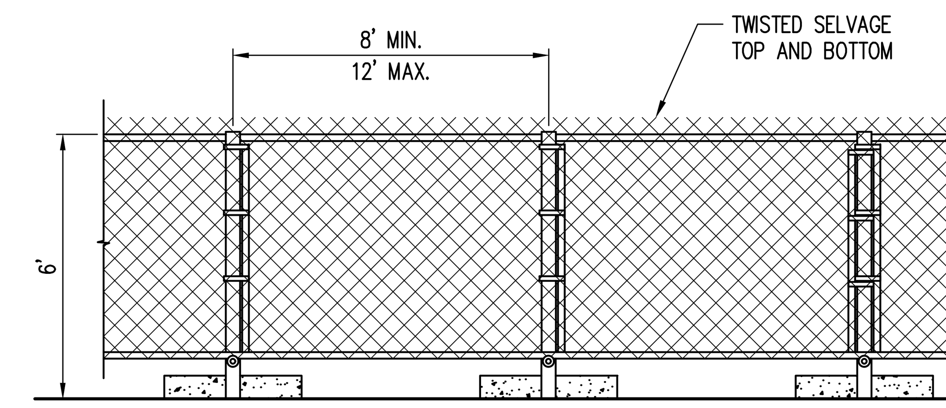
NTS



NOTE:
DAMAGE RESULTING FROM RUNOFF OR CONSTRUCTION ACTIVITY SHALL BE REPAIRED IMMEDIATELY.

TEMPORARY INTERCEPTOR SWALE (3 / C300)

NTS

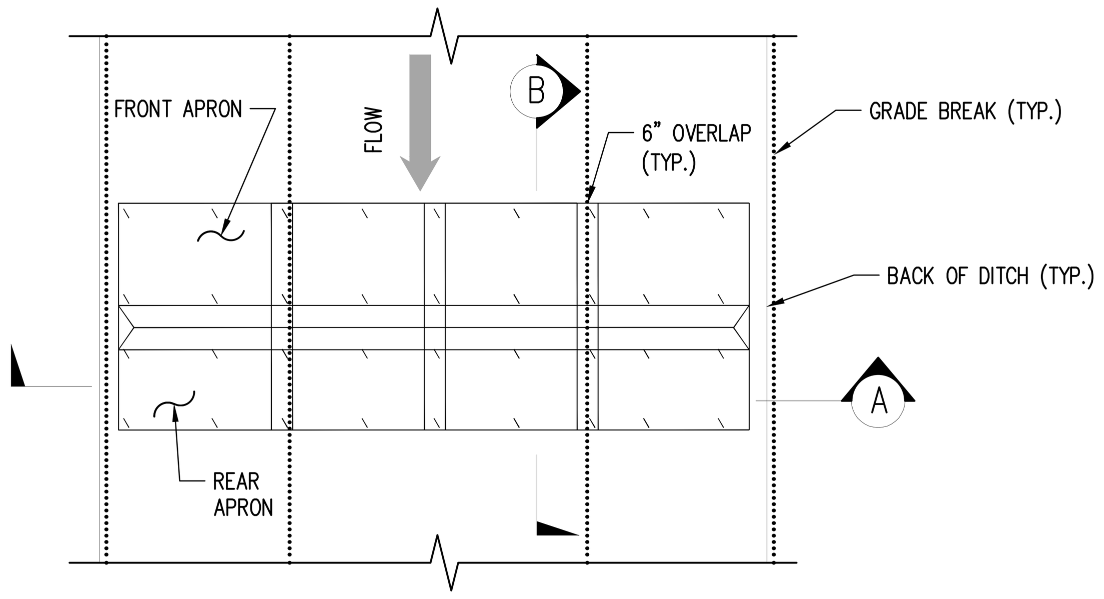


NOTES:

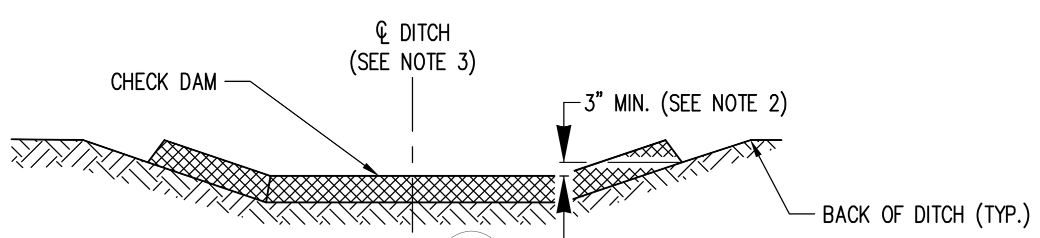
1. CHAIN LINK FABRIC TO BE MINIMUM 11 GAUGE, GALVANIZED. NO RUSTED OR EXCESSIVELY MALFORMED FABRIC.
2. FENCE BASES SHALL BE OF SUFFICIENT WEIGHT AND/OR SPREAD TO ADEQUATELY SUPPORT EACH PANEL.
3. PANEL–TO–PANEL CONNECTIONS SHALL BE MADE AT A MINIMUM TWO LOCATIONS PER CONNECTION UNLESS OTHERWISE APPROVED.
4. INSTALL 11'–8" X 5'–6" MESH CONSTRUCTION SCRIM PER FENCE PANEL AND CONSTRUCTION WARNING SIGNAGE 50' ON CENTER.

CONSTRUCTION FENCE DETAIL (4 / C300)

NTS



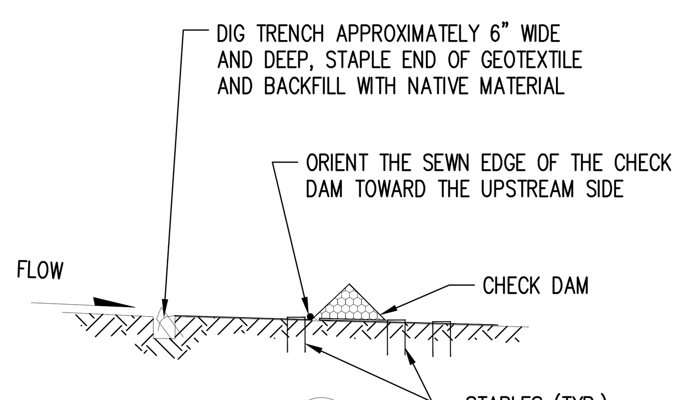
PLAN VIEW



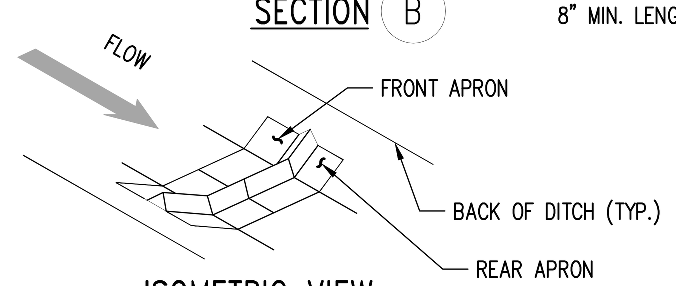
SECTION A

NOTES:

1. GEOTEXTILE ENCASED CHECK DAMS SHALL MEET THE REQUIREMENTS OF COS STANDARD SPECIFICATIONS 8–01.3(5)A AND 9–14.5(4).
2. INSTALL THE SLOPED ENDS OF THE CHECK DAM A MINIMUM OF 3" HIGHER THAN THE TOP OF THE CHECK DAM IN THE CHANNEL TO ENSURE THAT WATER FLOWS OVER THE DAM AND NOT AROUND IT.
3. FLAT BOTTOM DITCH DESIGN SHOWN, CHECK DAM INSTALLATION DETAILS ARE SIMILAR FOR "V" BOTTOM DITCHES.
4. PERFORM MAINTENANCE IN ACCORDANCE WITH COS STANDARD SPECIFICATION 8–01.3(14).



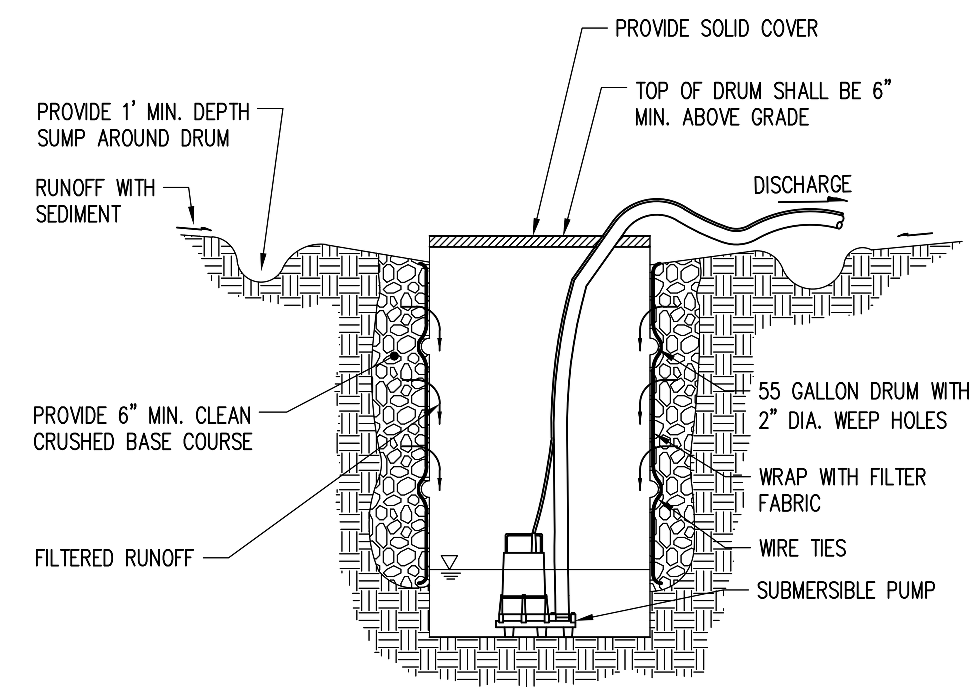
SECTION B



ISOMETRIC VIEW

TRIANGULAR SILT DIKE (5 / C300)

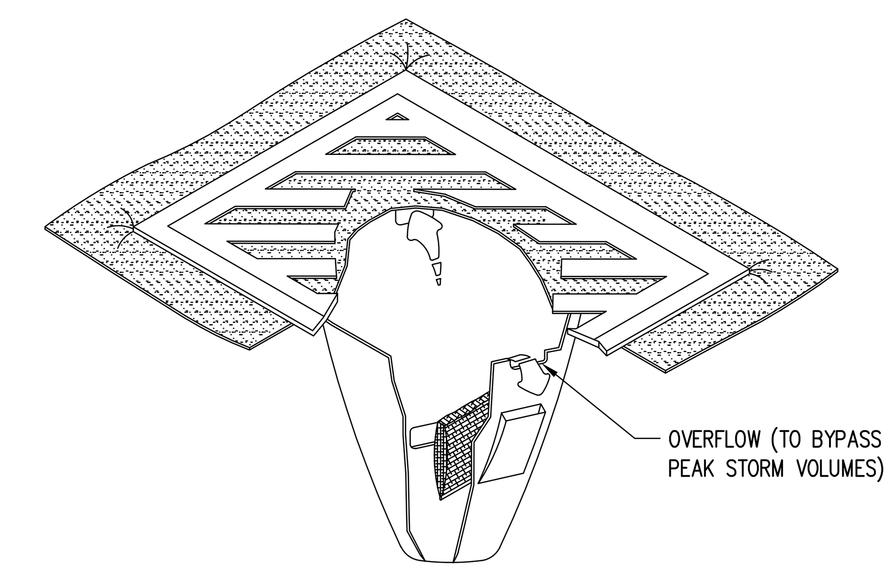
CITY OF SEATTLE DPD STANDARD DRAWING E2.60



NOTE:
PUMPS SHALL BE SUBMERSIBLE, CONTRACTOR IS RESPONSIBLE FOR SIZING PUMP BASED ON FIELD CONDITIONS.

SUMP AND PUMP DETAIL (6 / C300)

NTS

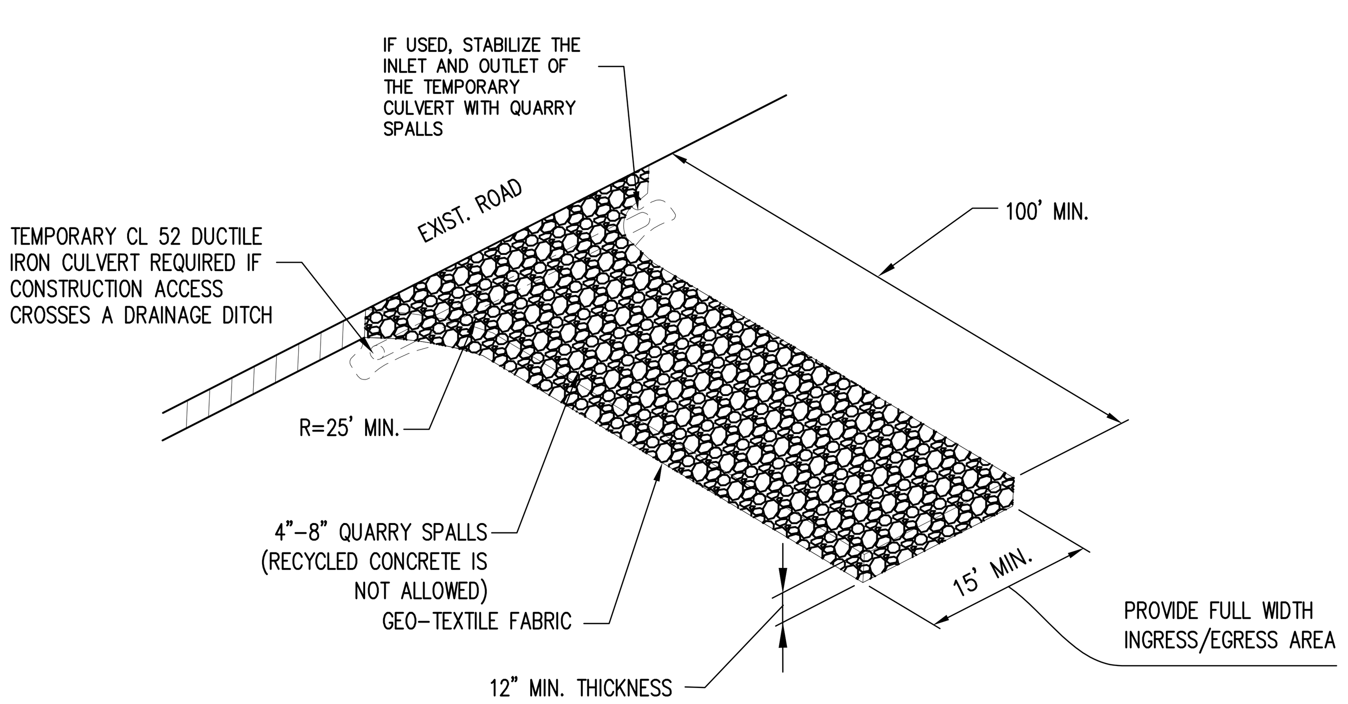


NOTES:

1. STORM DRAIN INLETS SHALL BE REMOVED AT THE END OF THE JOB.
2. STORM DRAIN INLETS SHALL ONLY BE INSTALLED IN DRAINAGE DEVICES PER THE MANUFACTURER'S RECOMMENDATIONS. CATCH BASIN INSERTS SHALL NOT BE INSTALLED IN CURB INLETS.
3. INSERTS SHALL BE INSPECTED AND MAINTAINED WHEN A 1/2 INCH RAIN ACCUMULATES WITHIN A 24 HOUR PERIOD. CLEAN AND/OR REPLACE INSERT WHEN HALF OF THE TRAP IS FILLED WITH SEDIMENTS.

STORM DRAIN INLET INSERT (7 / C300)

CITY OF SEATTLE DPD STANDARD DRAWING E3.30
NTS



STABILIZED ACCESS SHALL BE USED IN ALL AREAS OF THE SITE WITH VEHICLE TRAFFIC AND PARKING, INCLUDING PLANTING STRIPS. RECYCLED CONCRETE IS NOT ALLOWED.

TEMPORARY CONSTRUCTION ENTRANCE (8 / C300)

CITY OF SEATTLE DPD STANDARD DRAWING E2.10

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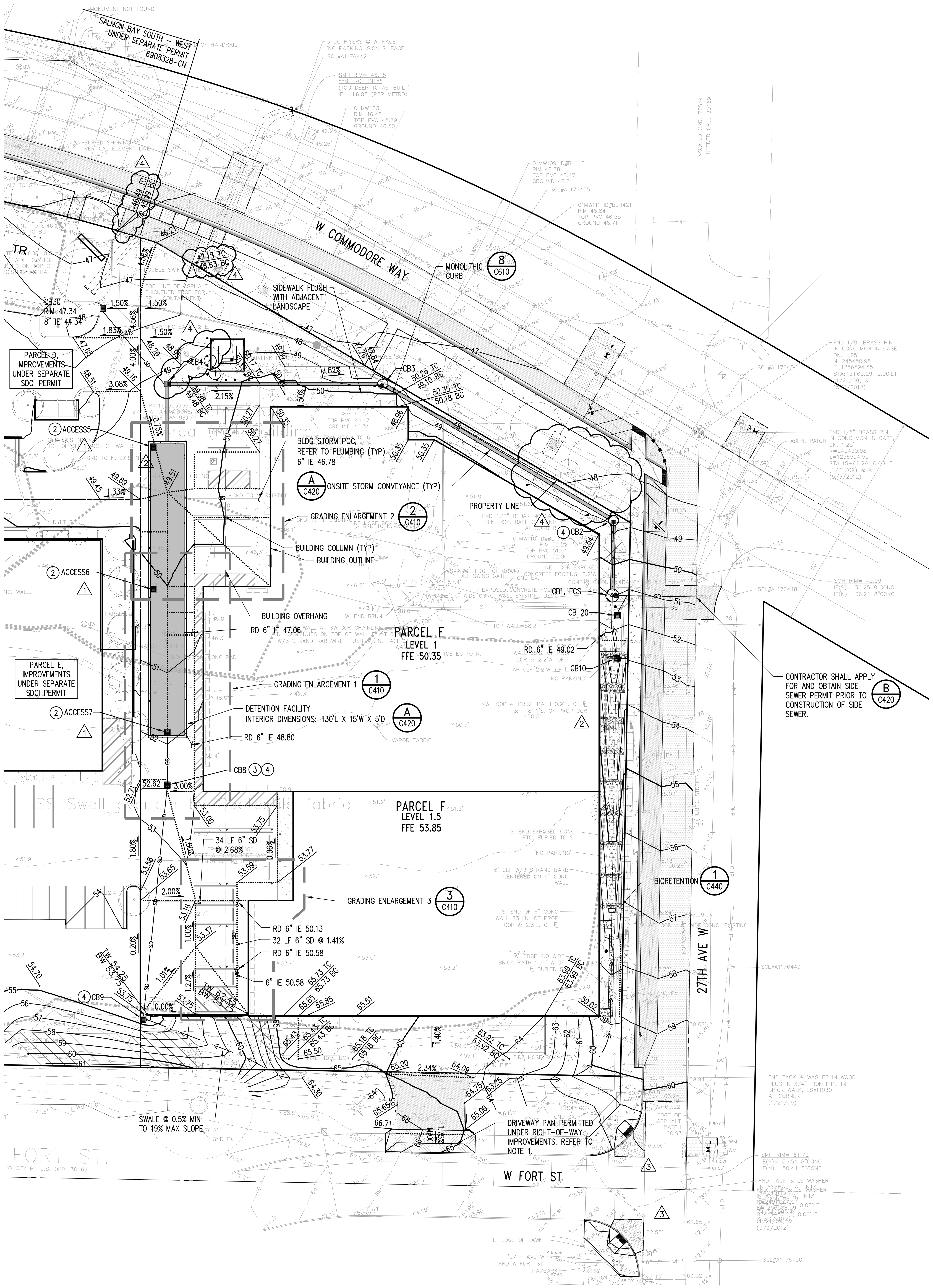
TESC DETAILS

C310



LEGEND

- BUILDING OUTLINE
- BUILDING OVERHANG
- PROPERTY LINE
- STORM SIDE SEWER PIPE
- DETENTION PIPE
- GRADE BREAK
- PROPOSED CONTOUR
- SPOT ELEVATION
- CLEANOUT
- SWALE LINE
- TYPE 1 CATCH BASIN
- TYPE 2 CATCH BASIN

NOTES

1. PROJECT'S RIGHT-OF-WAY IMPROVEMENTS ARE BEING PERMITTED UNDER SDOT PERMIT NUMBER SUSIP0000335. STREET IMPROVEMENTS SHALL MEET COS STANDARD PLANS AND REQUIREMENTS. NON-STANDARD ITEMS OR FINISHES WILL BE COORDINATED AND APPROVED BY SDOT.
2. PERMANENT IMPROVED CONDITIONS STORMWATER MANAGEMENT FOR THE SITE WILL REQUIRE THE FOLLOWING MITIGATION:
   A. THE PROJECT WILL BE REQUIRED TO MEET THE PEAK FLOW CONTROL STANDARD. FLOW CONTROL WILL BE MET THROUGH THE USE OF A DETENTION SYSTEM.
   B. THE PROJECT IS REQUIRED TO PROVIDE ON-SITE STORMWATER MANAGEMENT (OSM), BUT ALL OSM BMPS WERE DETERMINED TO BE INFEASIBLE ON THE SITE.
   C. THE PROJECT DISCHARGES TO THE PUBLIC COMBINED SEWER AND IS THEREFORE NOT REQUIRED TO PROVIDE WATER QUALITY.

   TEMPORARY / CONSTRUCTION STORMWATER MANAGEMENT SHALL BE IN ACCORDANCE WITH SREMP AND C300.
3. REFER TO C450 FOR FOUNDATION DRAINAGE.
4. REFER TO C420 FOR STORM PROFILES.
5. CONTRACTOR IS ALERTED TO THE PRESENCE OF CONTAMINATION ON THE SITE. REFER TO C100, NOTE 1. ALL EARTHWORK ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SREMP.
6. CATCH BASIN LIDS SHALL BE SOLID UNLESS OTHERWISE NOTED.

CONSTRUCTION NOTES

1. 45° TRANSITION TO FLUSH CURB
2. VAULT ACCESS WITH RISERS, FRAME AND VANED GRATE PER COS STD PLAN 265B, AND LADDERS PER COS STD PLAN 232A.
3. INSTALL OUTLET TRAP PER COS STD PLAN 267.
4. CATCH BASIN WITH VANED GRATE PER COS STD PLAN 265B.

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JENIFER R. CLAPHAM, STATE OF WASHINGTON, PROFESSIONAL ENGINEER

SDCI 6826187-CN

PROJECT NO.:
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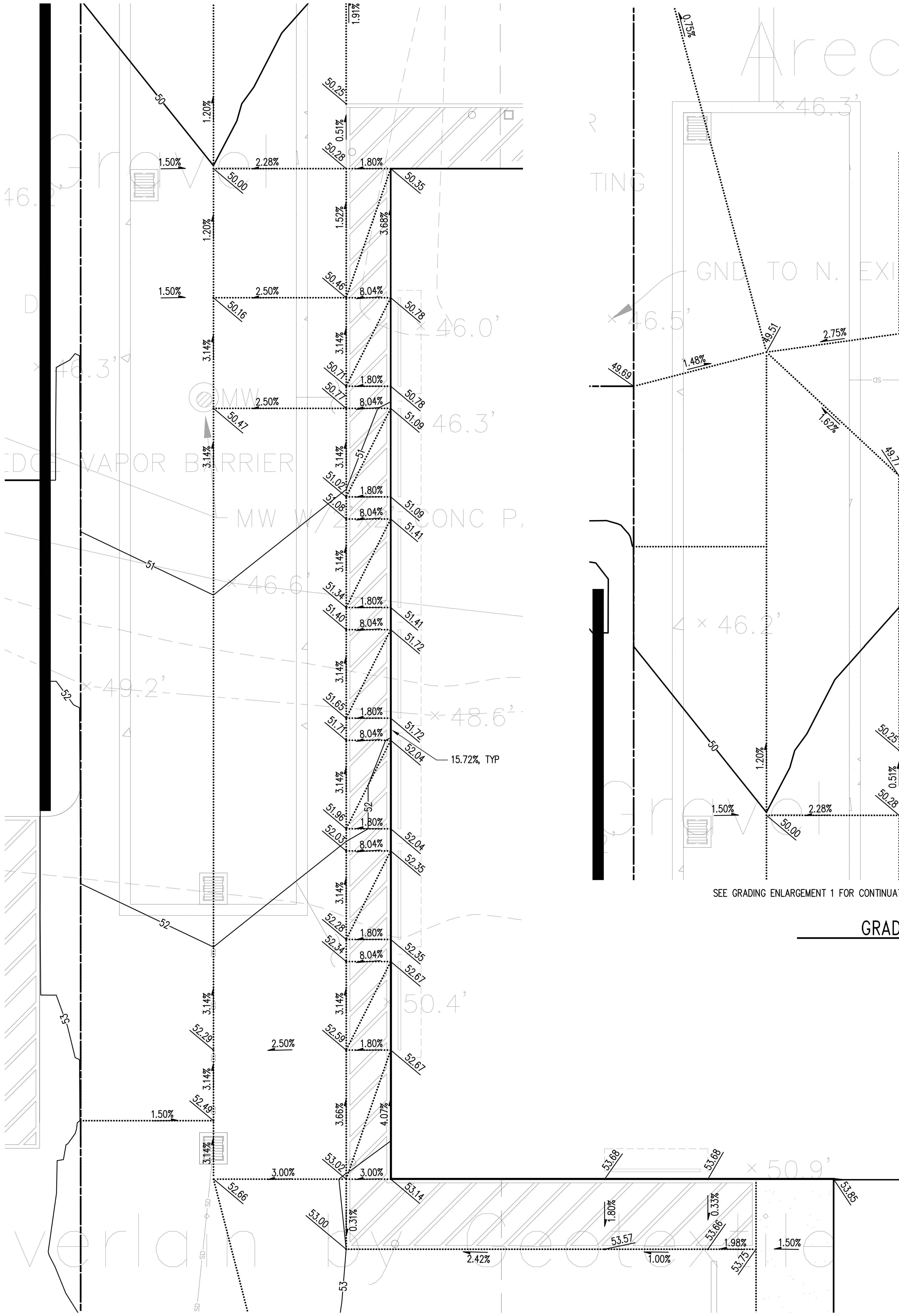
GRADING AND DRAINAGE PLAN

C400

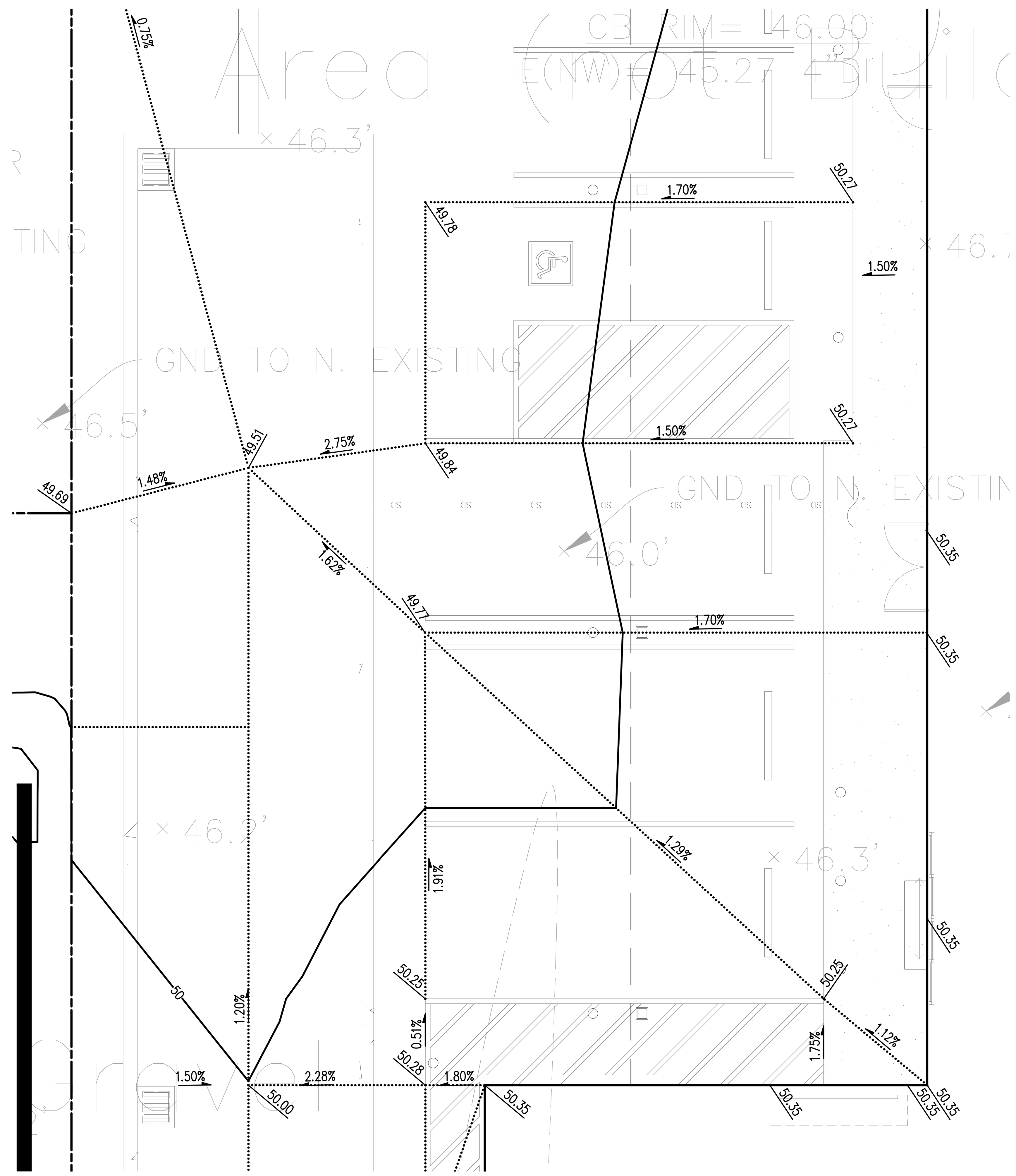
SEE GRADING ENLARGEMENT 2 FOR CONTINUATION



SEE GRADING ENLARGEMENT 3 FOR CONTINUATION

GRADING ENLARGEMENT 1 (1 / C400)

SCALE: 1" = 5'

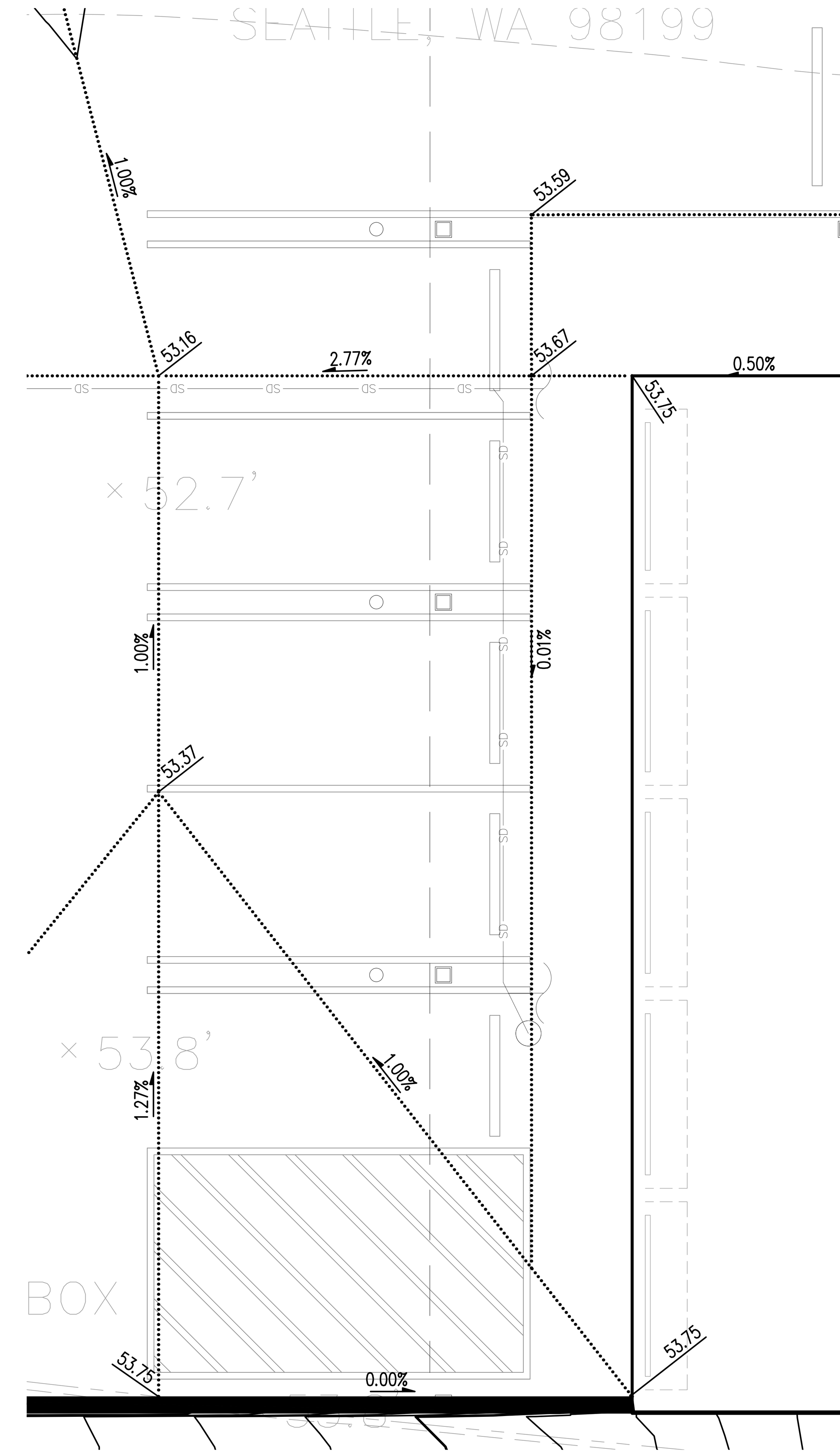


SEE GRADING ENLARGEMENT 1 FOR CONTINUATION

GRADING ENLARGEMENT 2 (2 / C400)

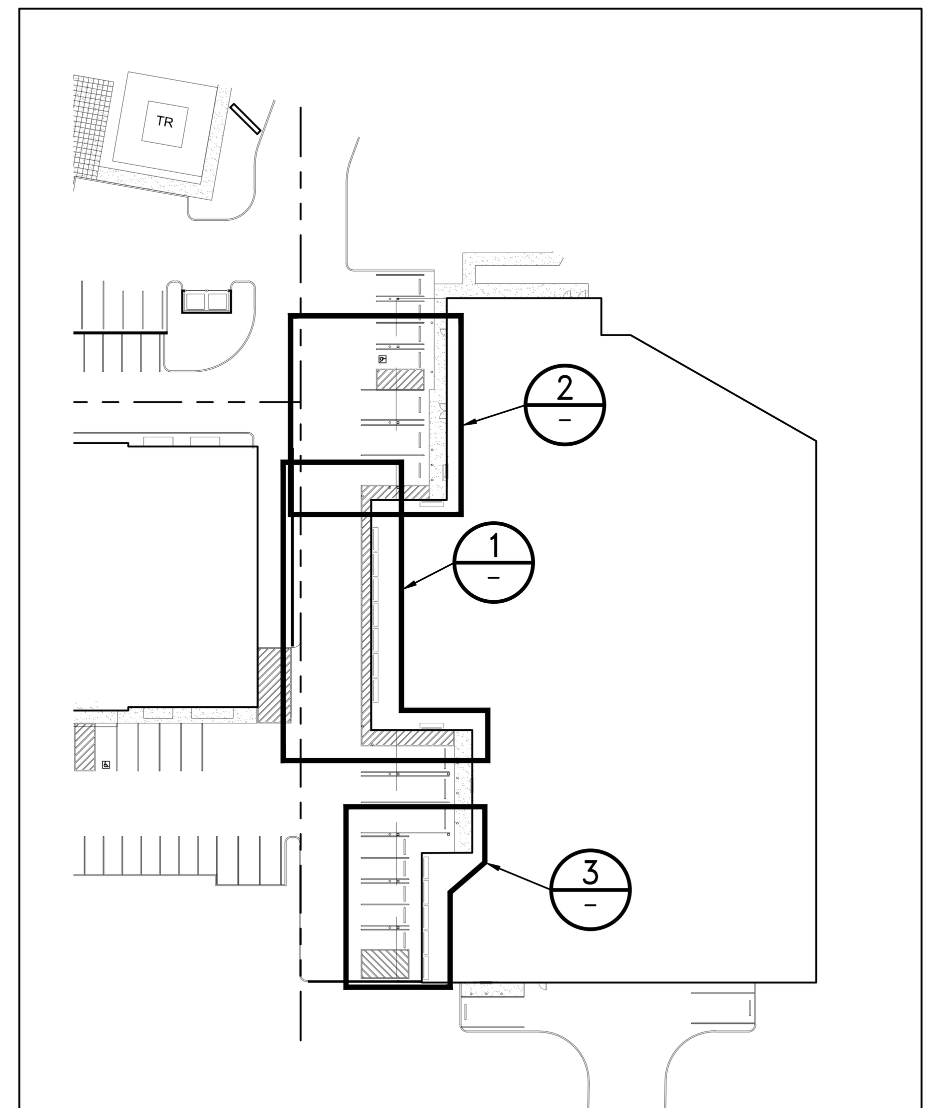
SCALE: 1" = 5'

SEE GRADING ENLARGEMENT 1 FOR CONTINUATION



GRADING ENLARGEMENT 3 (3 / C400)

SCALE: 1" = 5'



KEY MAP

SCALE: 1" = 50'

0 2.5' 5' 10'

1 inch = 5 feet

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06/16/23	2	BID ADDENDUM
10/04/23	3	IFC SET
02/22/24	4	CONSTRUCTION BULLETIN #6

SDCI 6826187-CN

PROJECT NO.:
PROJECT MGR.:
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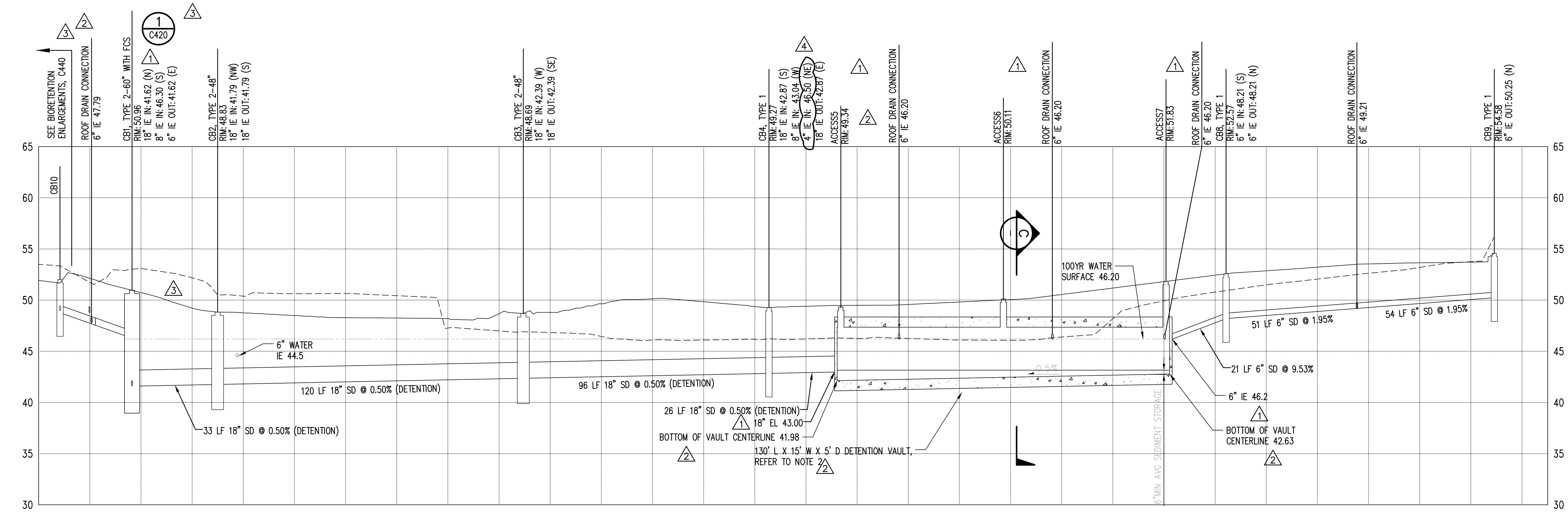
CHECKED BY:

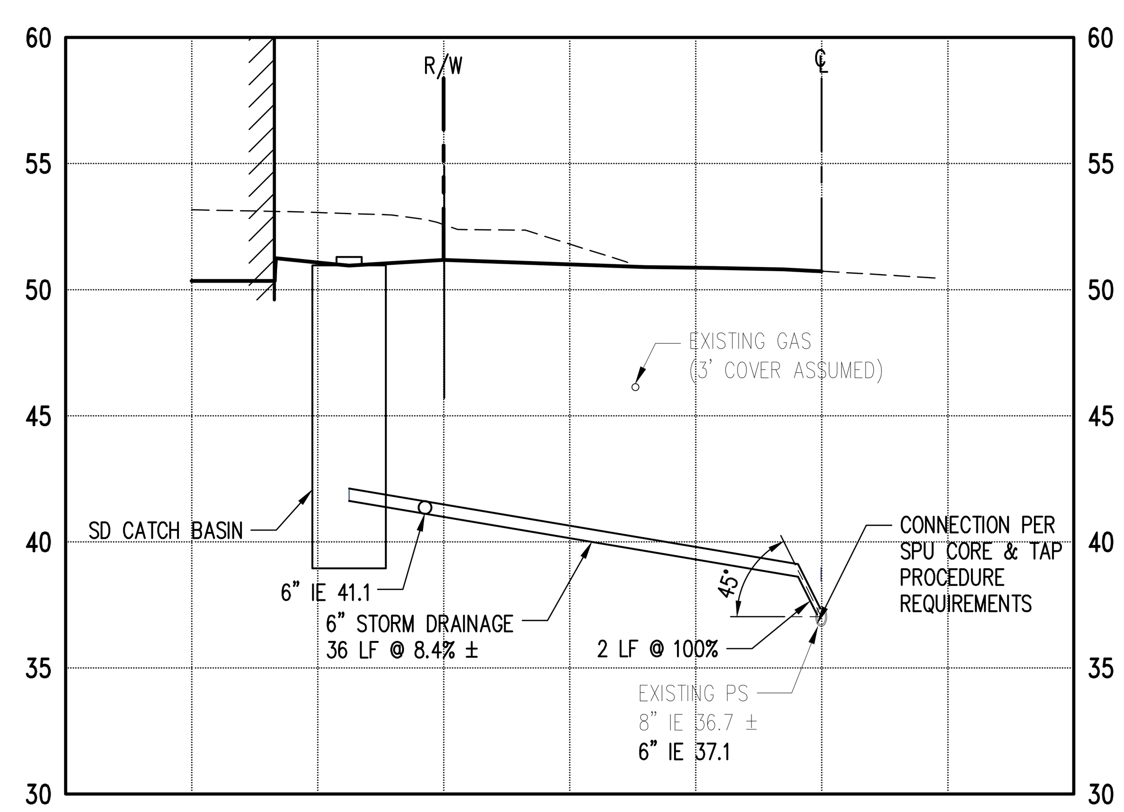
GRADING ENLARGEMENTS

C410

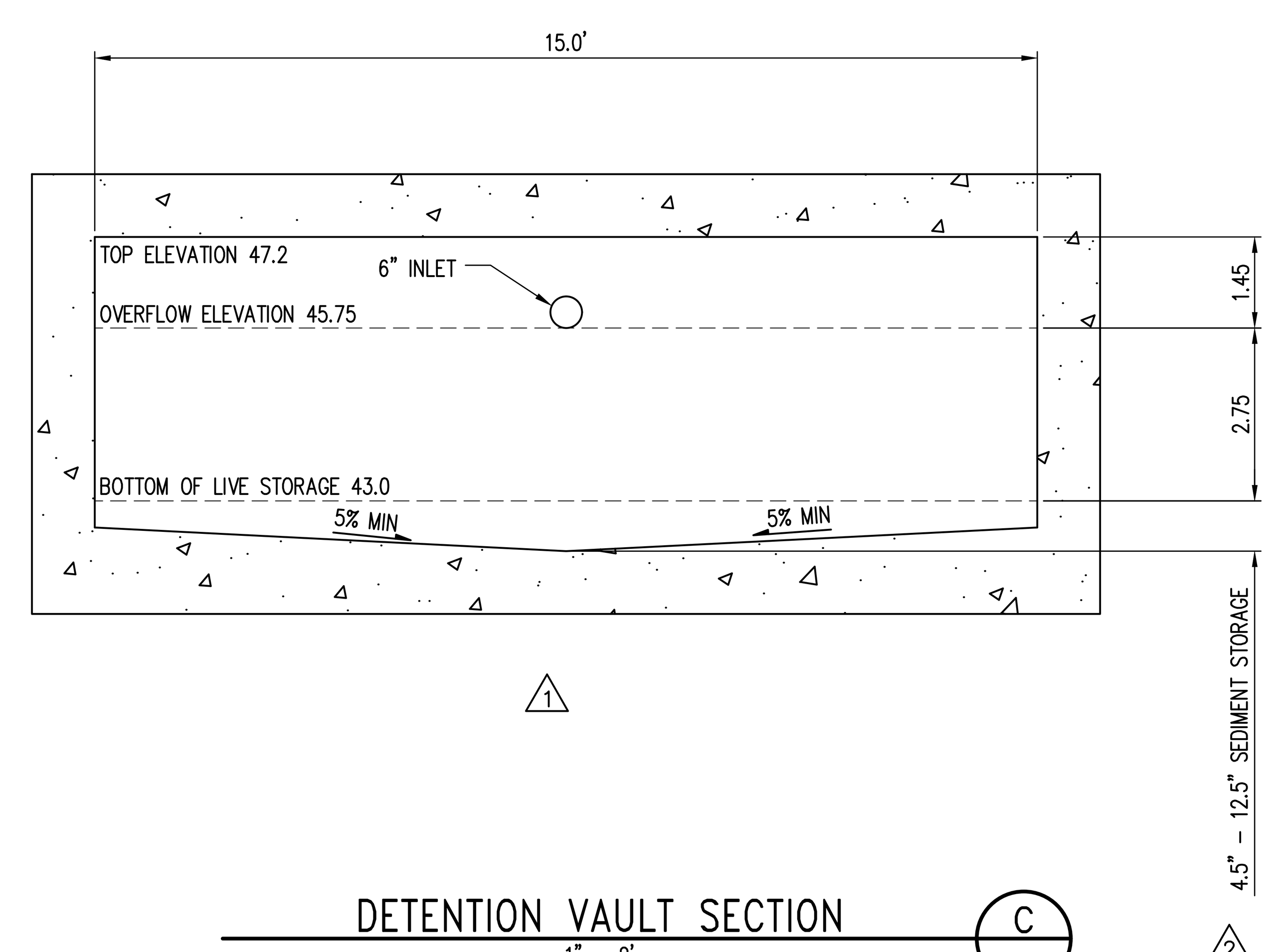


1. VAULT DESIGN SHALL ACCOMMODATE HS-20 AND SFD LOADING CRITERIA.
2. REFER TO STRUCTURAL PLANS FOR DETENTION VAULT STRUCTURAL DETAILS.

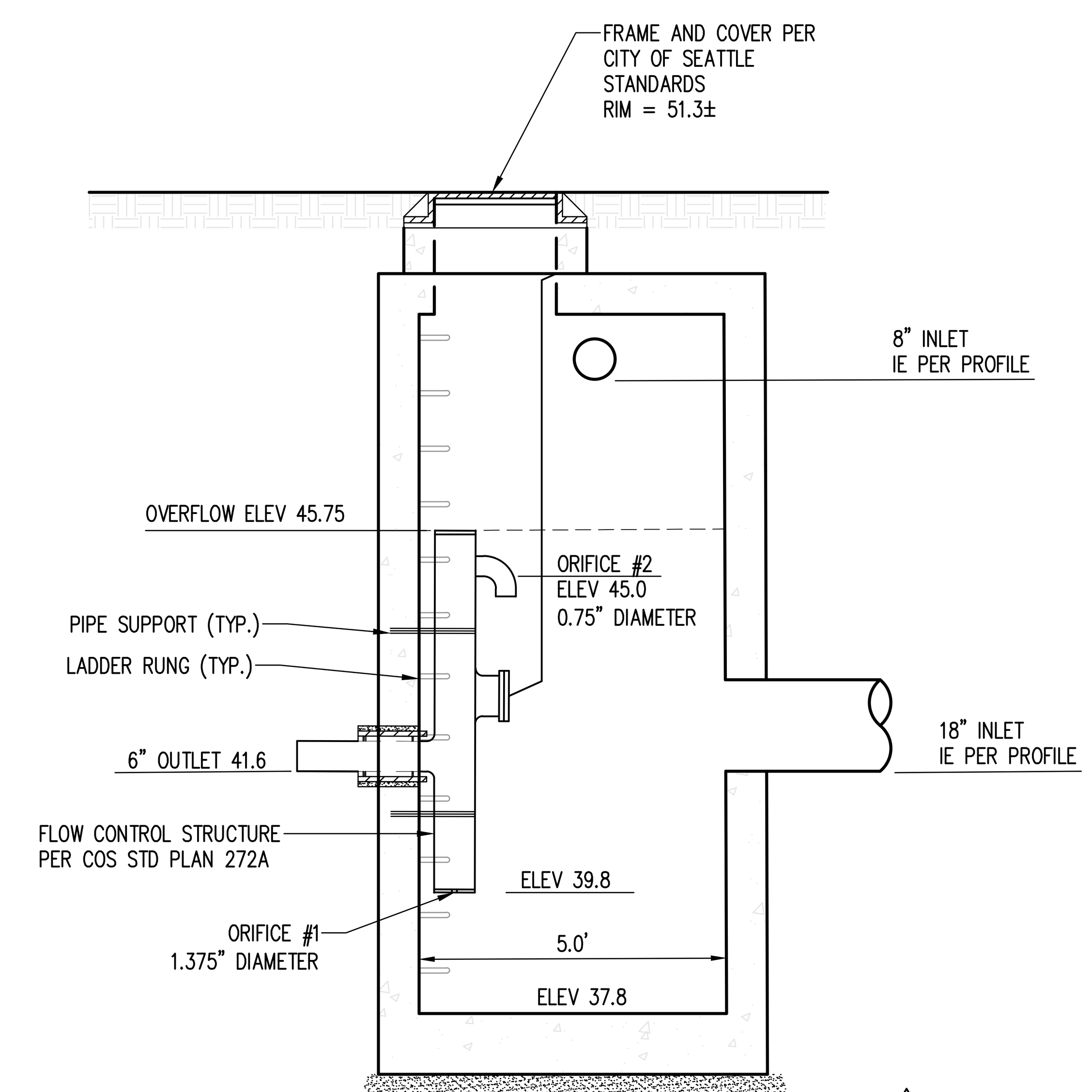
ONSITE STORM AND VAULT PROFILE (A / C400)
H: 1" = 20', V: 1" = 5'



STORM SERVICE PROFILE (B / C400)
H: 1" = 10', V: 1"=5'



DETENTION VAULT SECTION (C / –)
1" = 2'



NOTES:
1. FLOW CONTROL STRUCTURE SHALL BE PER COS STD PLAN 272A. SHEAR GATE AND HANDLE SHALL BE PER COS STD PLAN 272B.

FLOW CONTROL STRUCTURE (1 / C400)
1" = 2'

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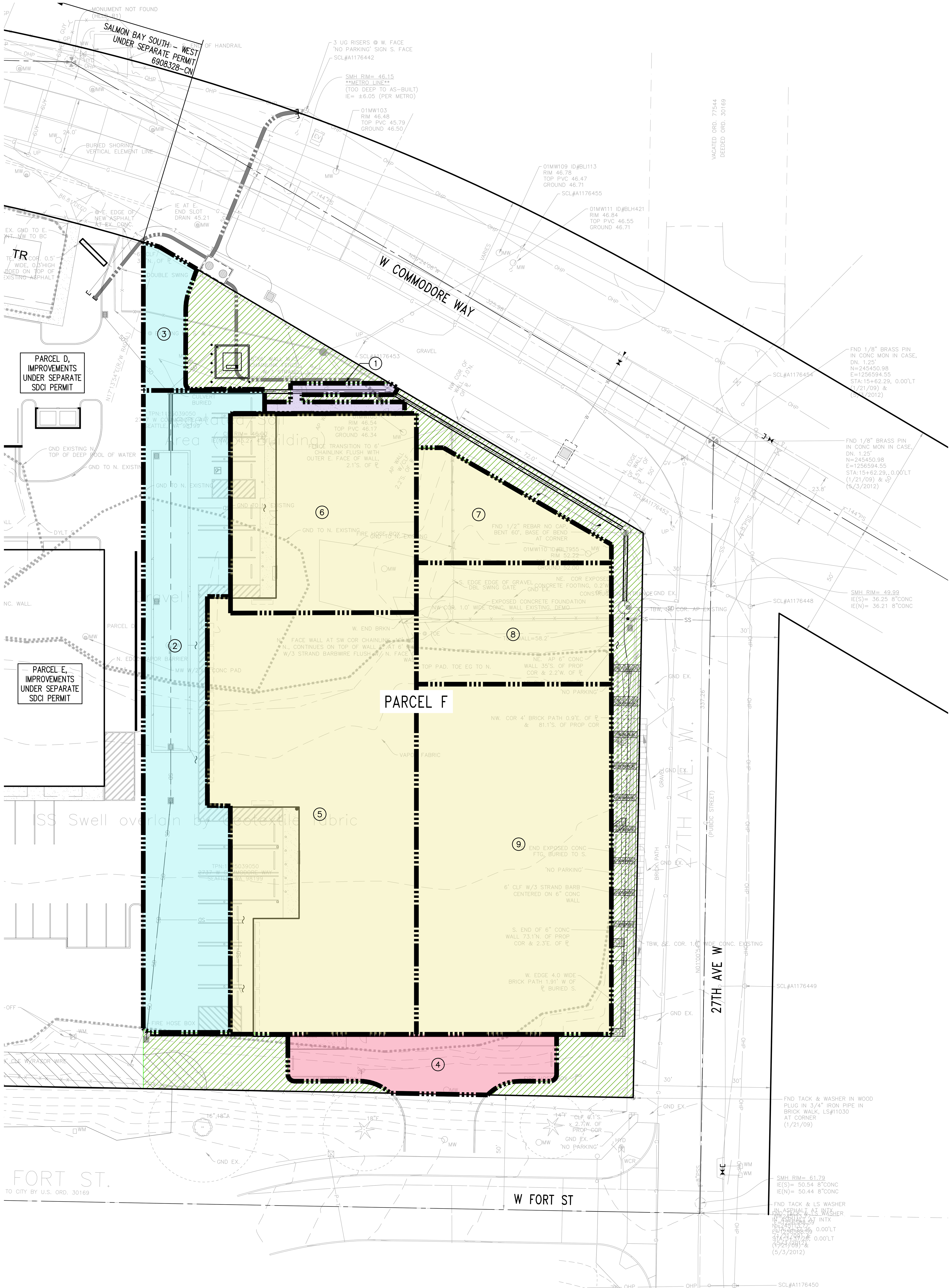
DRAINAGE DETAILS

C420

Feb 22, 2024 - 6:17pm KyleA



LEGEND

- BUILDING OUTLINE
- BUILDING OVERHANG
- PROPERTY LINE
- SUB-BASIN BOUNDARY

OSM AREAS SUMMARY

	HARD SURFACE NAME	COLOR	AREA (SF)	BMP
1	PEDESTRIAN PATH		536	–
2	PRIMARY PARKING (TO VAULT)		9965	–
3	PRIMARY PARKING (BYPASS)		1148	–
4	FORT STREET PARKING (ON SITE)		2691	BR
5	ROOF (WEST – MECHANICAL)		15986	–
6	ROOF (WEST – SOLAR)		7057	–
7	ROOF (EAST – SOLAR)		2756	–
8	ROOF (EAST – REMAINING)		4380	–
9	ROOF (EAST – TREATED)		13040	BR
	LANDSCAPING (PERVIOUS SURFACE)		9587	–

On-site Stormwater Management Calculator
Site and Drainage Control Summary
Version 09-30-2021

To use the On-Site List Calculator you must select "Enable Content" when the Security Warning appears.

Project Information

Site Address: 2707 West Commodore Way — SDCI Project Number: 6826187-CN
Primary Contact: Sam Brick — SDOT Project Number: SUSIP0000335
Project Type: Parcel-Based — Primary Contact E-mail or Phone: sam.brick@kpff.com
Is this project "Closely Related" to other SDCI construction permits/projects? ○ Yes ◉ No
"Closely Related" SDCI Construction Permit Numbers
Is this project associated with a Short Plat or Subdivision? ○ Yes ◉ No — SDCI MUP Number
Was the project lot created or altered in size after Jan 1, 2016? Yes

Total Site Area: 67,031 sf — Total Closely Related and/or Short Plat/Subdivision Site Area: sf
Total Existing Hard Surface Area: 40,601 sf
Total New plus Replaced Hard Surface Area (NPRHS): 57,559 sf — Total Closely Related and/or Short Plat/Subdivision NPRHS: sf
Total New and/or Replaced Lawn/Landscaping: 9,472 sf
Undisturbed and Protected Site Area: 0 sf

Site Information

Note: Reference the Preliminary Assessment Report (PAR) to complete this section.

Approved Point of Stormwater Discharge: Public Combined Sewer Main
Drainage Basin: Combined Sewer Service Area
Is the downstream drainage system considered Capacity Constrained by SPU? No
Approved Point of Wastewater Discharge: Public Combined Sewer Main
Approved Point of Sub-Surface Discharge: Public Combined Sewer Main
Required Flow Control Standard: ☐ Pre-Developed Pasture ☐ Pre-Developed Forest ☑ Peak Control ☐ Wetland Protection ☐ Existing Conditions ☐ None
Project will permanently discharge groundwater? No
Required Water Quality Treatment Standard: ☐ Oil Control ☐ Enhanced ☐ Basic ☑ None
Total Pollution Generating Hard Surface Area: 13,804 sf — w/ Closely Related/Short Plat/Subdiv. sf
Total Pollution Generating Pervious Surface Area: 9,472 sf — w/ Closely Related/Short Plat/Subdiv. sf
Environmentally Critical Areas: No
☐ Steep Slope ☐ Potential Slide ☐ Riparian Corridor ☐ Wetland ☐ Liquefaction ☐ Flood Prone
☐ Landfill ☐ Known Landslide ☐ Fish / Wildlife ☐ Peat / Groundwater Management ☐ Shoreline Habitat
Is there soil and/or groundwater contamination on this site? Yes — Source Control is required: Yes

Infiltration Information

Is infiltration investigation required? No — Why? Site is mapped as "infltr. investigation not required"
Is infiltration on the site feasible?
Site Measured Infiltration Rate x Infiltration Rate Correction Factor 0.5 = 0 Site Design Inf Rate

On-site Stormwater Management (select List Approach or Performance Standard)

◉ On-site List Approach (Pre-sized) Calculator -- Complete the Surface tabs and BMP Sizing tabs (Most commonly used)
○ On-site Performance Standard -- Stormwater modeling by Civil Engineer (Also for No Off-site Point of Discharge)

Number of roof areas: 5
Number of other surface areas: 4

Surface	Surfaces Description	On-site BMP	Contrib. Area (sf)	Facility Size (sf)	Facility Configuration
1	Surface:Pedestrian Path	None Feasible	536	-	
2	Surface:Primary Parking I	None Feasible	9,965	-	
3	Surface:Primary Parking I	None Feasible	1,148	-	
4	Surface:Fort Street Parkii	Non-Infiltrating Bioretention #1	2,691	205 sf	Sloped sides 2 inch
5	Roof:Roof (West - Mecha	None Feasible	15,986	-	
6	Roof:Roof (West - Solar)	None Feasible	7,057	-	
7	Roof:Roof (East - Solar)	None Feasible	2,756	-	
8	Roof:Roof (East - Remain	None Feasible	4,380	-	
9	Roof:Roof (East - Treatec	Non-Infiltrating Bioretention #1	13,040	^	^

Total New/Replaced Roof Area: 43,219 — Total Roof Area Managed: 43,219
Total New/Replaced Other Surface Area: 14,340 — Total Other Surface Managed: 14,340
Total Area Managed: 57,559 sf — Total Volume Managed On Site: 113,676 gal
Estimated compost required for soil amendment: 58.7264 cy — *Volume of compost will be verified by the Inspector.*

seattle.gov

0 10' 20' 40'
1 inch = 20 feet

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JENIFER R. CLAPHAM
STATE OF WASHINGTON
PROFESSIONAL ENGINEER

PROJECT NO.:
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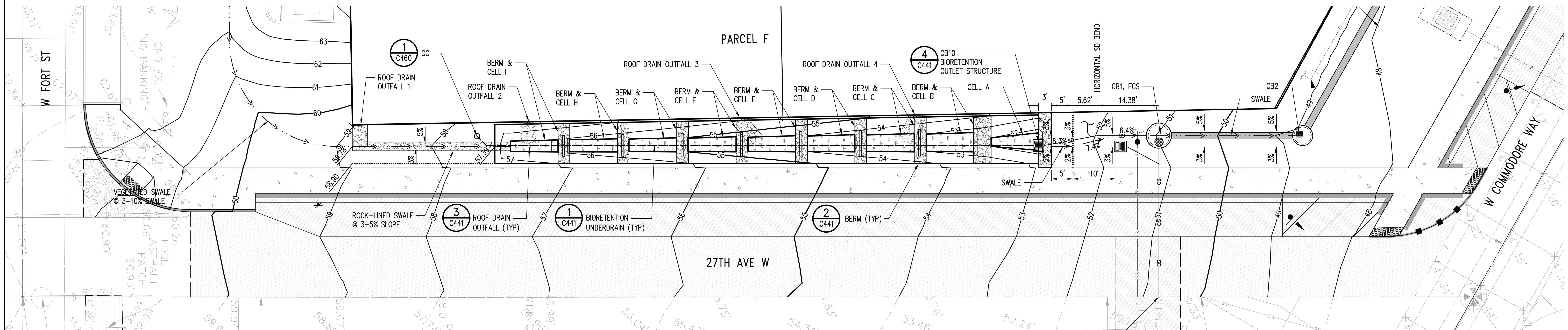
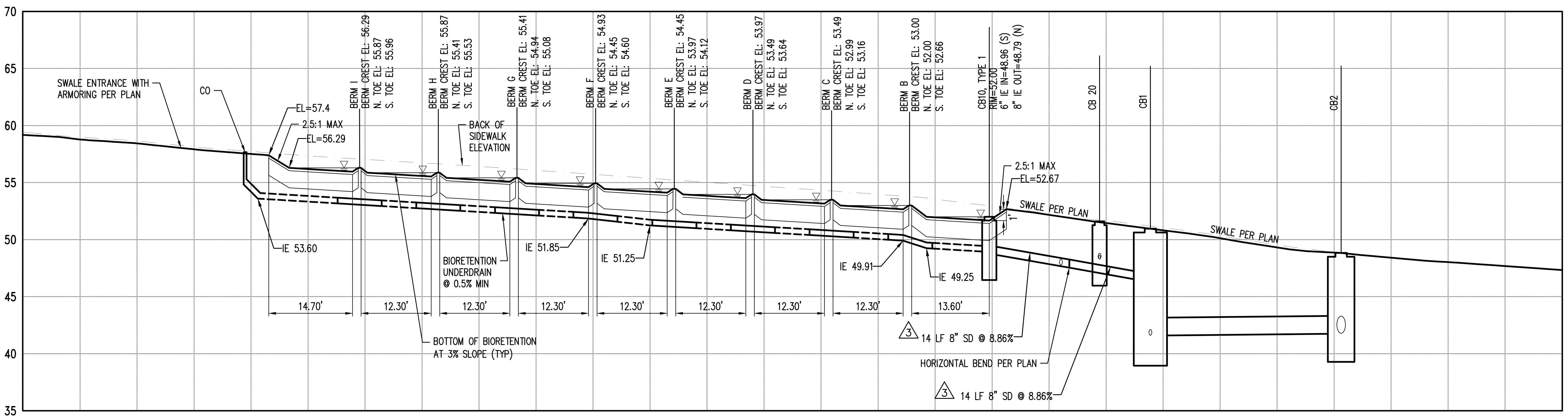
DRAWN BY:
CHECKED BY:

OSM PLAN

C430



BIORETENTION PLAN



BIORETENTION PROFILE

NOTES:

1. ROOF DRAINS PER PLUMBING AND ARCH PLANS. CONFIRM LOCATIONS AND COORDINATE ELEVATION TO OUTLET ABOVE FINISHED GRADE FOR ROOF DRAIN OUTFALLS 1, 2, 3, AND 4. ROOF DRAIN OUTFALL LOCATION MAY REQUIRE IN-FIELD ADJUSTMENTS

1 inch = 10 ft. HORZ
1 inch = 5 ft. VERT

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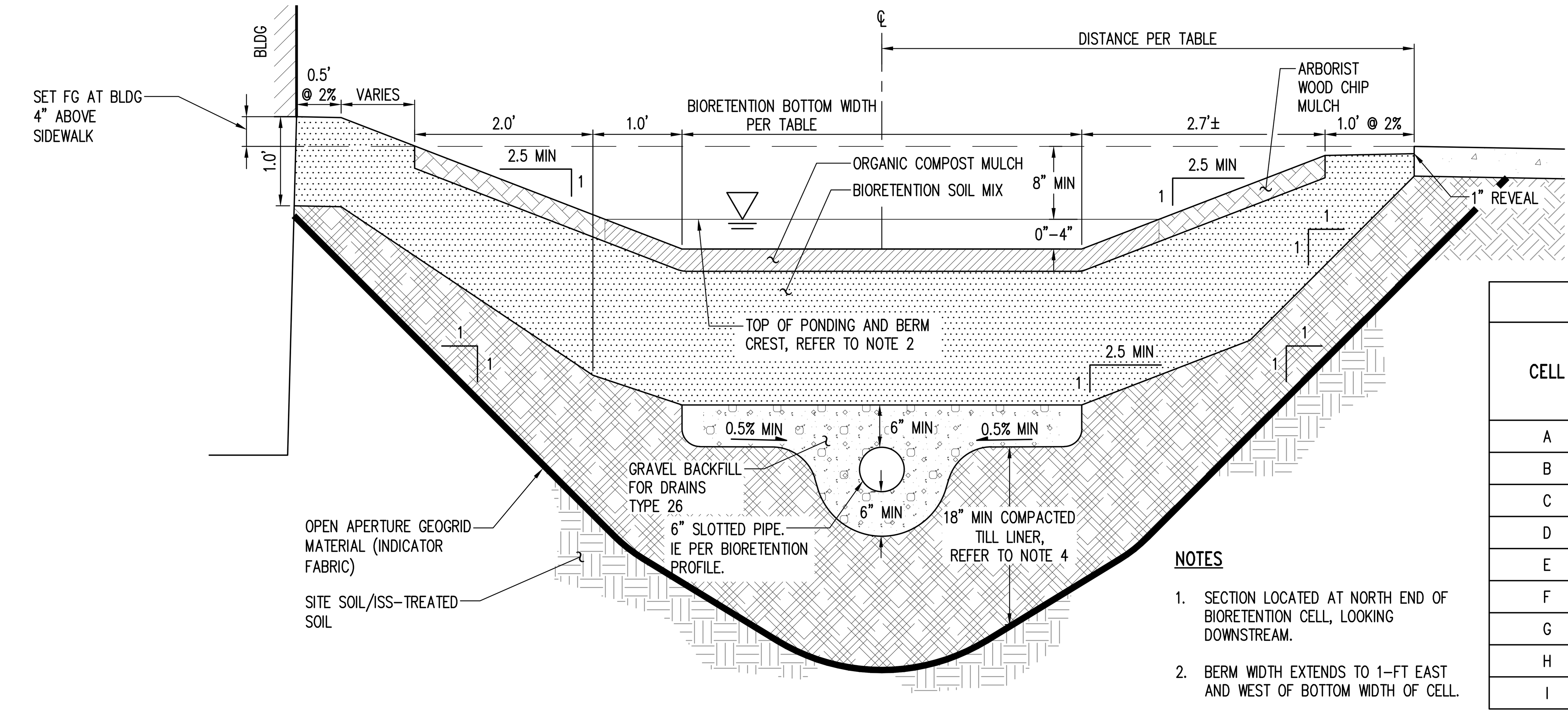
BIORETENTION ENLARGEMENTS

C440



NOTES

1. SECTION LOCATED AT NORTH END OF BIORETENTION CELL, LOOKING DOWNSTREAM.
2. BERM WIDTH EXTENDS TO 1-FT EAST AND WEST OF BOTTOM WIDTH OF CELL.

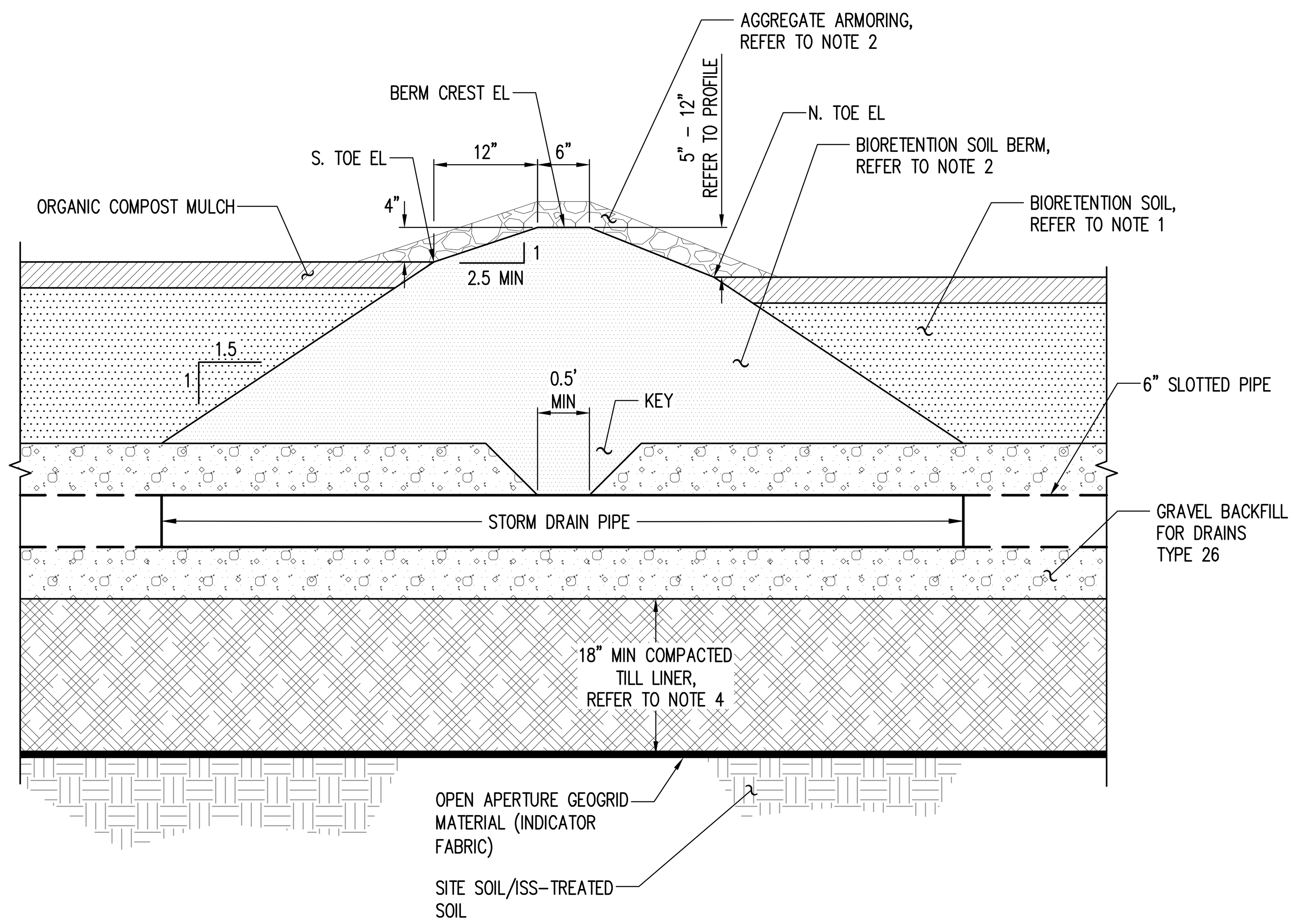
BIORETENTION BOTTOM WIDTH

CELL	MAX WIDTH (N END)	DISTANCE FROM CENTER OF BIORETENTION BOTTOM TO SIDEWALK AT MAX WIDTH (N END)	MIN WIDTH (S END)	DISTANCE FROM CENTER OF BIORETENTION BOTTOM TO SIDEWALK AT MIN WIDTH (S END)	BOTTOM AREA
A	4.1'	6.1'	2.0'	6.0'	33 SF
B	4.5'	6.0'	4.0'	5.9'	47 SF
C	4.2'	5.8'	3.8'	5.8'	44 SF
D	4.0'	5.7'	3.5'	5.6'	42 SF
E	3.7'	5.6'	3.3'	5.5'	39 SF
F	3.5'	5.5'	3.0'	5.4'	36 SF
G	3.3'	5.4'	2.9'	5.3'	34 SF
H	3.0'	5.2'	2.8'	5.1'	33 SF
I	2.8'	5.1'	2.4'	5.0'	29 SF

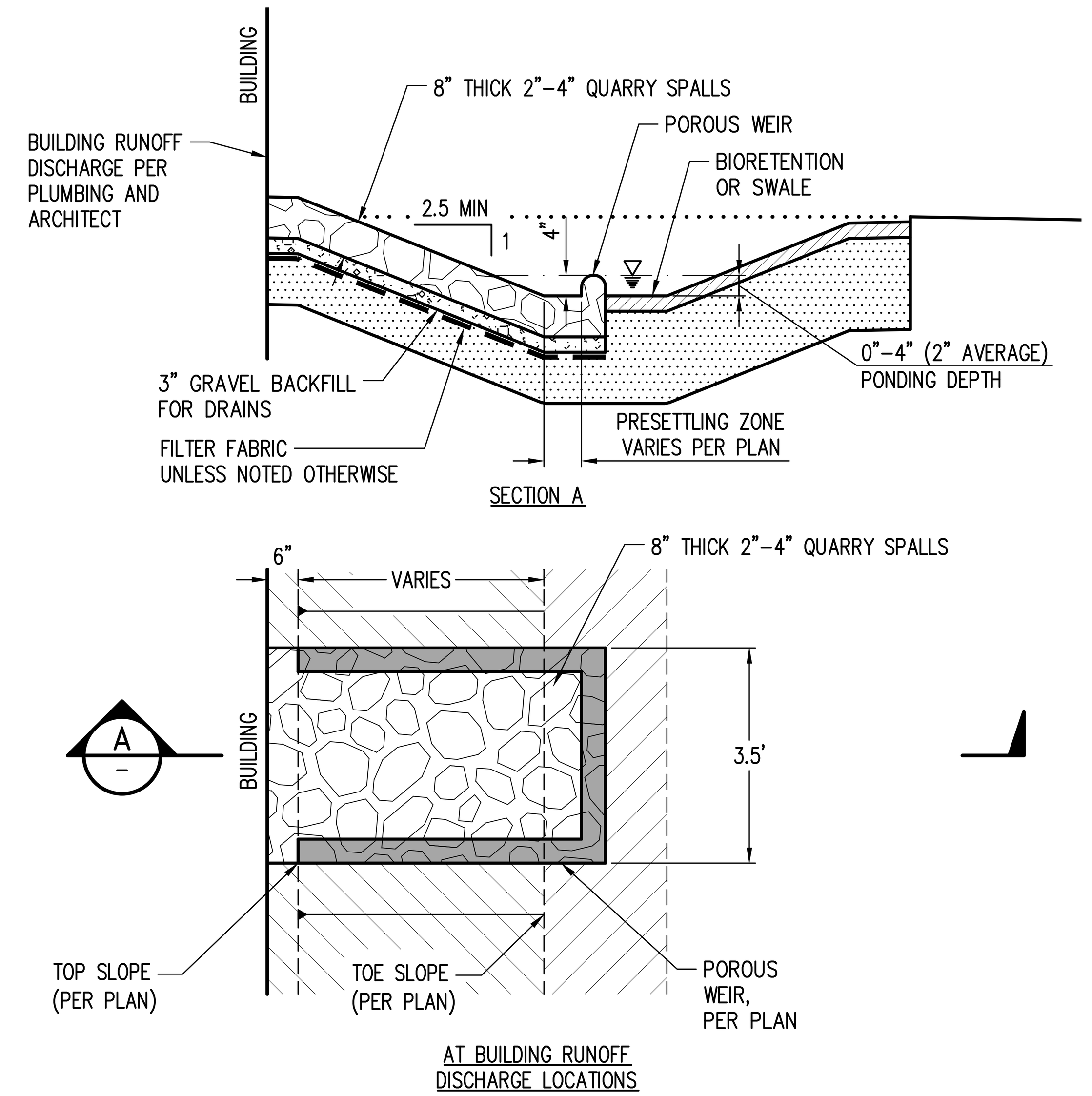
NOTES:

1. BIORETENTION SOILS SHALL INSTALLED PER COS STD SPEC 7-21 AND DIRECTORS' RULE 10-2021/DWW-200 PG 5-71 THROUGH 5-73
2. BIORETENTION SOIL BERM SHALL BE COMPACTED TO 90% DRY DENSITY AND EXTEND AND KEY INTO GRAVEL BACKFILL FOR DRAINS. BERM SHALL HAVE 3" THICK AGGREGATE TYPE 4 ARMORING. FOR BERM ELEVATION (EL) INFORMATION, REFER TO PROFILE.
3. PLANTS PER LANDSCAPE AND SHALL MEET MINIMUM REQUIREMENTS OUTLINED IN DIRECTORS' RULE 10-2021/DWW-200 PG 5-76 THROUGH 5-77
4. COMPACTED TILL LINER IS LOW-PERMEABILITY LINER TO MINIMIZE INFILTRATION INTO SUBSURFACE SOILS AND SHALL EXTEND FOR FULL WIDTH, AND 10-FOOT TO NORTH AND SOUTH, OF BIORETENTION CELLS. LINER SHALL MEET MINIMUM REQUIREMENTSIN DIRECTORS' RULE 10-2021/DWW-200 APPENDIX E PG E-27 AND TABLE E.3.
5. INDICATOR FABRIC SHALL CONFORM TO WSDOT STD SPEC. 9-14.6(8) HIGH VISIBILITY FENCING AND BE COORDINATED AND CONFIRMED WITH CRETE FOR MEETING DEPARTMENT OF ECOLOGY REQUIREMENTS.

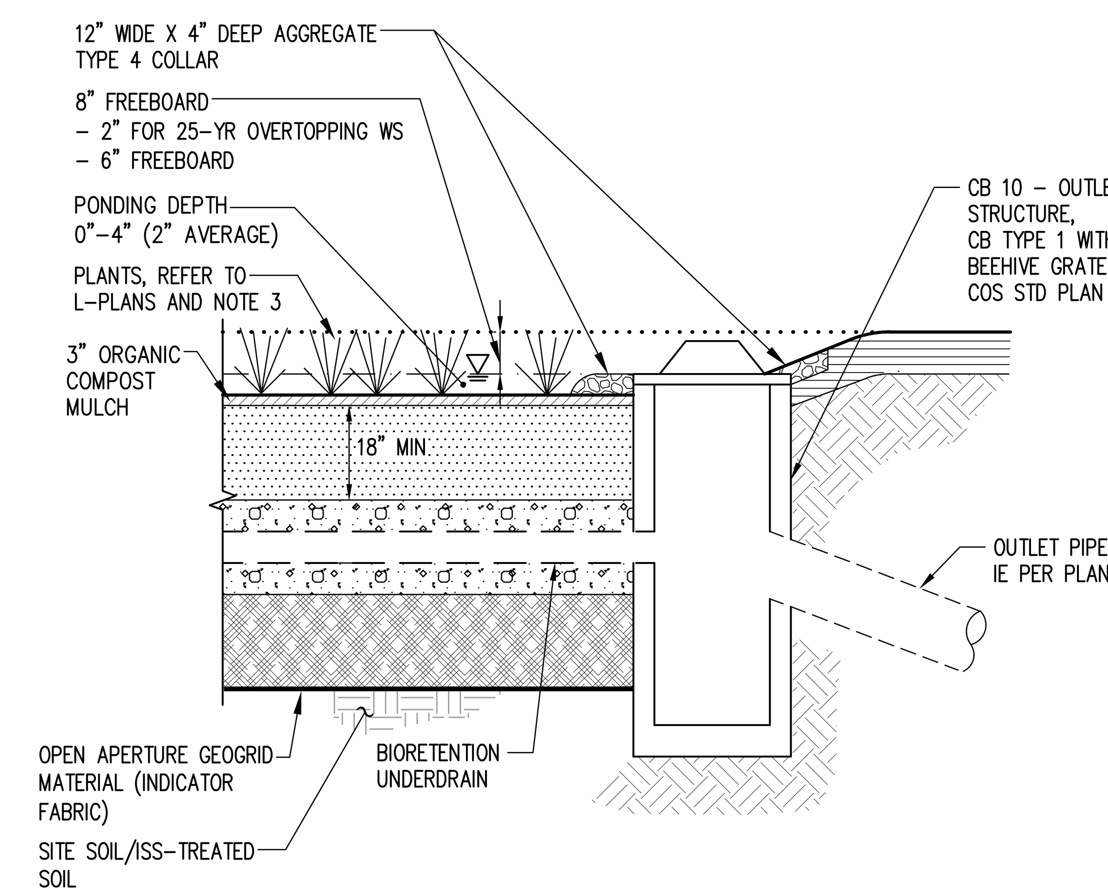
BIORETENTION UNDERDRAIN AND SECTION
NTS
1
C440



BIORETENTION BERM
NTS
2
C440



ROOF DRAIN OUTFALL
NTS
3
C440



BIORETENTION OUTLET STRUCTURE
NTS
4
C440

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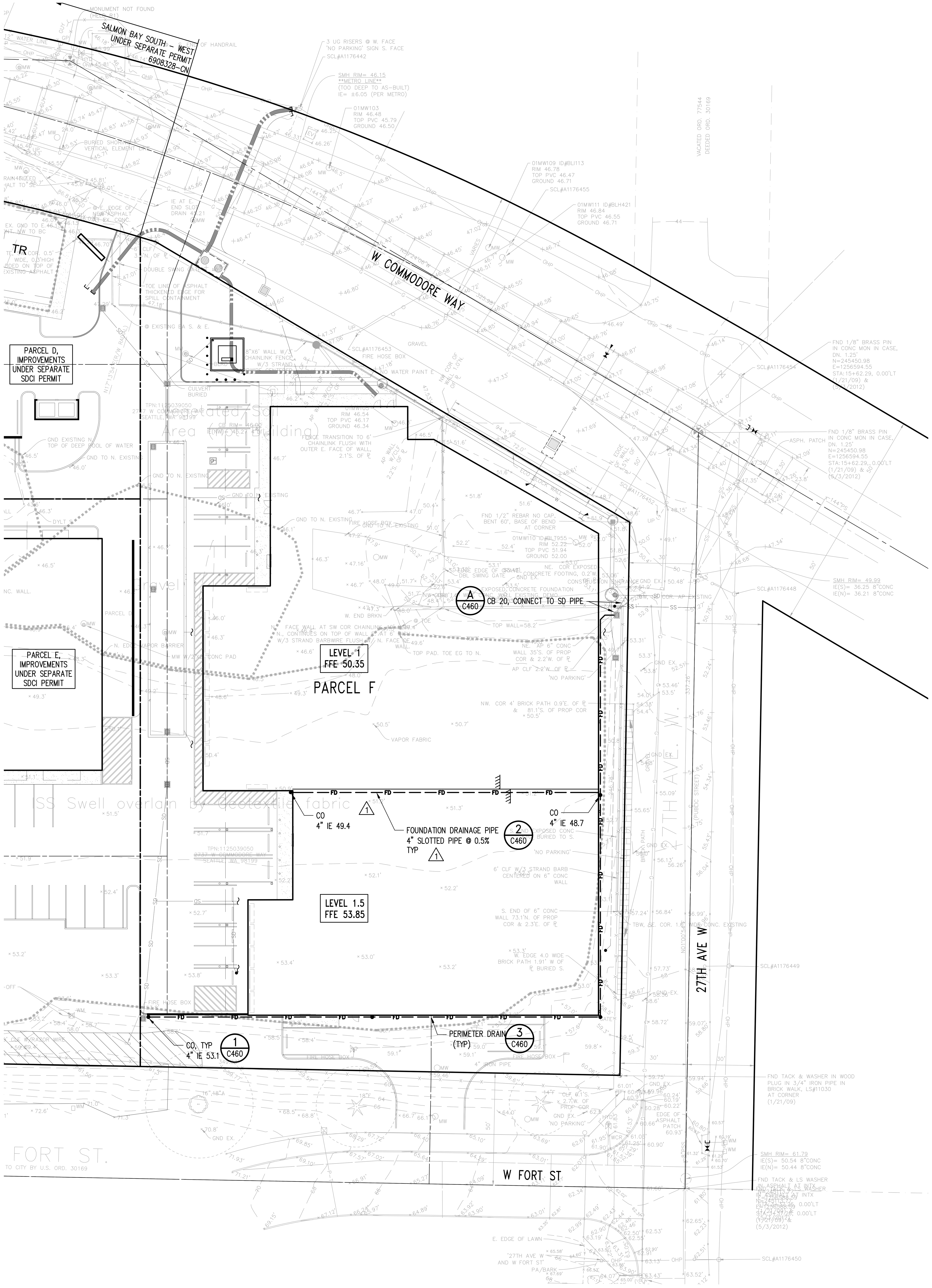
BIORETENTION DETAILS
2

C441

Z:\2000001-2009999\2000430 Salmon Bay\CAD\Design\SDO-East\SBSE-C440-CD-BIOR.dwg
KyleA
Feb 22, 2024 - 6:18pm



LEGEND

	PROPERTY LINE
	BUILDING BELOW GRADE
FD	FOUNDATION DRAIN PIPE
SD	STORM DRAIN PIPE
	PLUMBING POC
•	CLEANOUT

NOTES

1. GROUNDWATER DISCHARGE MONITORING AND TREATMENT WILL BE CONDUCTED AS NECESSARY TO MEET DISCHARGE REQUIREMENTS.
2. PROVIDE CLEANOUTS AT ANGLE POINTS AND NO FURTHER THAN 100–FT ON CENTER. CLEANOUT FITTING TYPE AND EXACT LOCATION SHALL BE COORDINATED WITH ARCHITECT.
3. CONTRACTOR IS ALERTED TO THE PRESENCE OF CONTAMINATION ON THE SITE. REFER TO C100, NOTE 1.

0 10' 20' 40'
1 inch = 20 feet

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40799
PROFESSIONAL ENGINEER
2024-02-22

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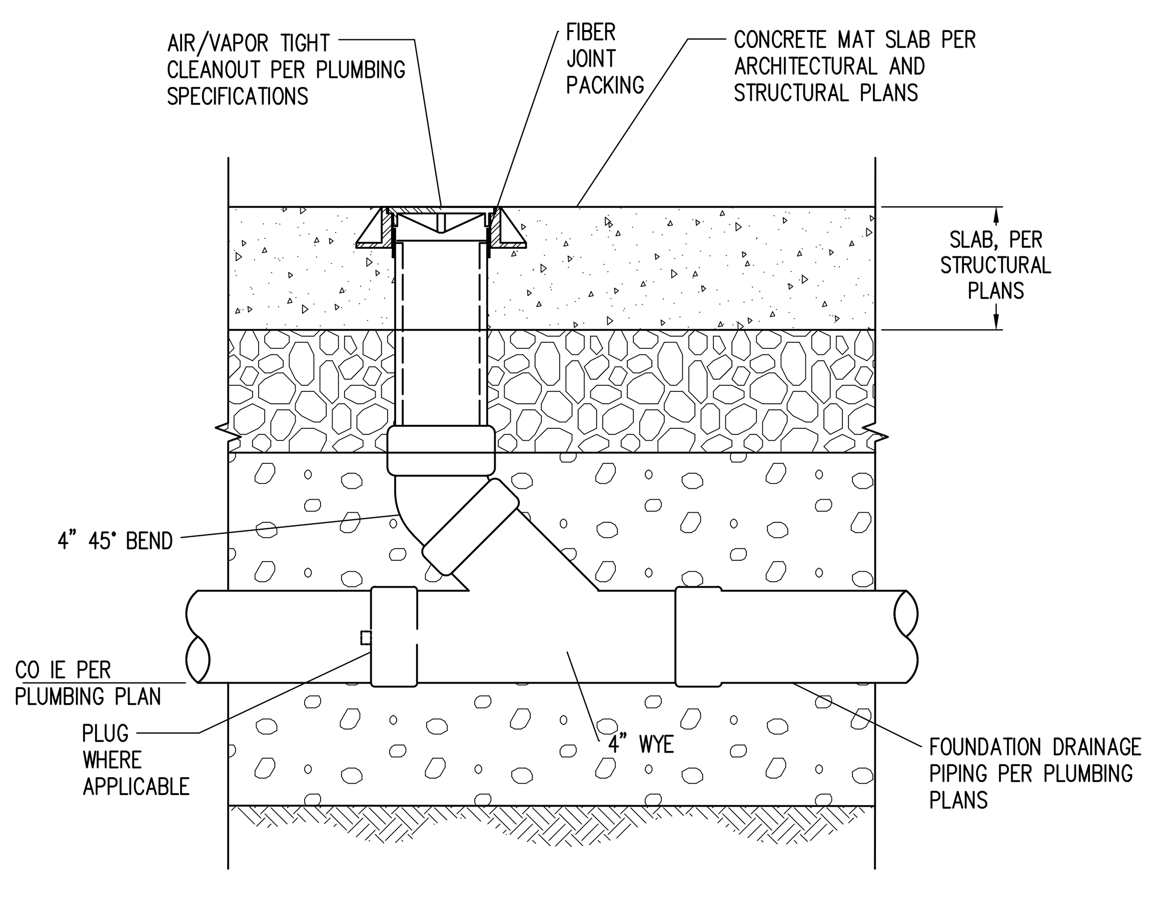
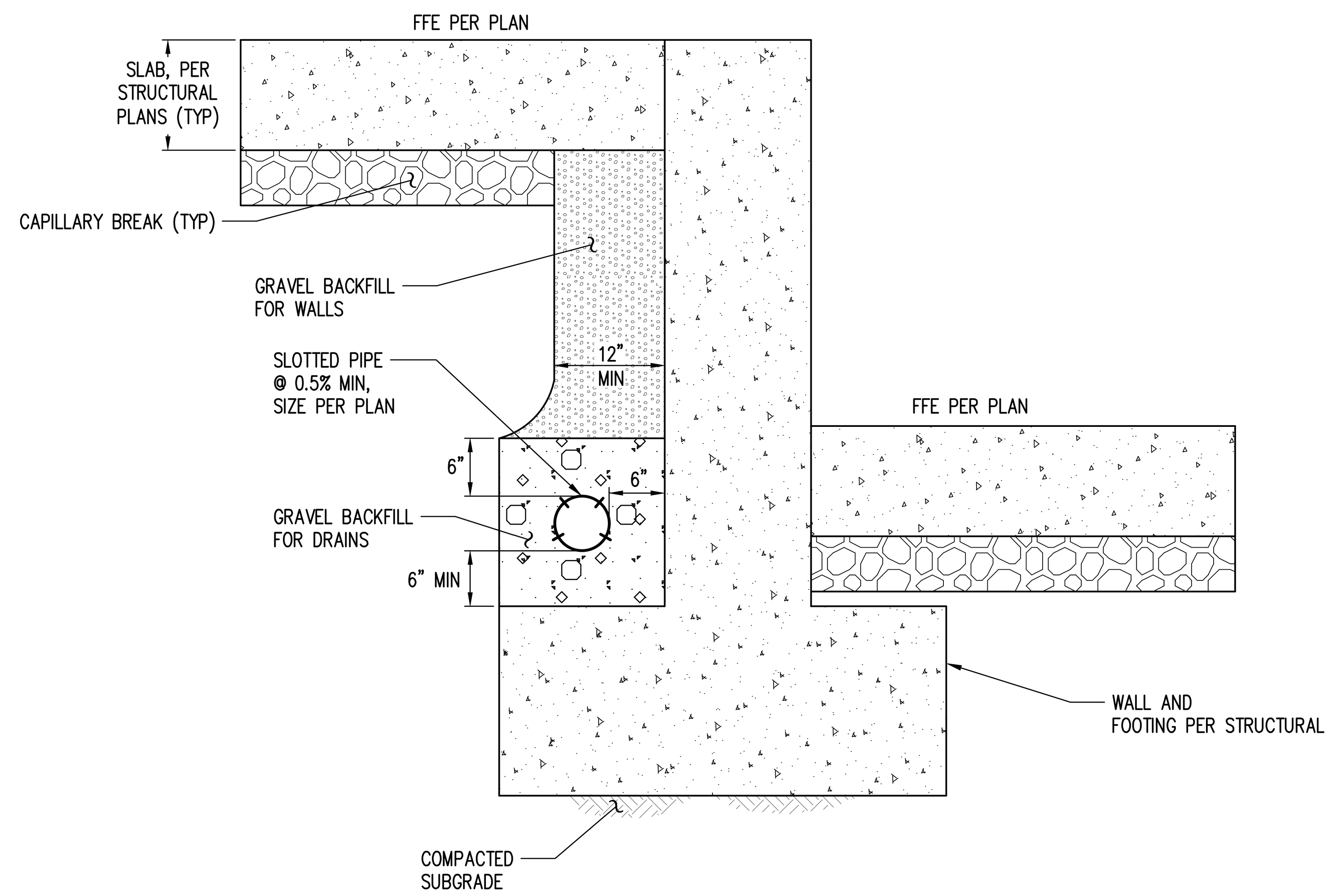
FOUNDATION DRAINAGE PLAN

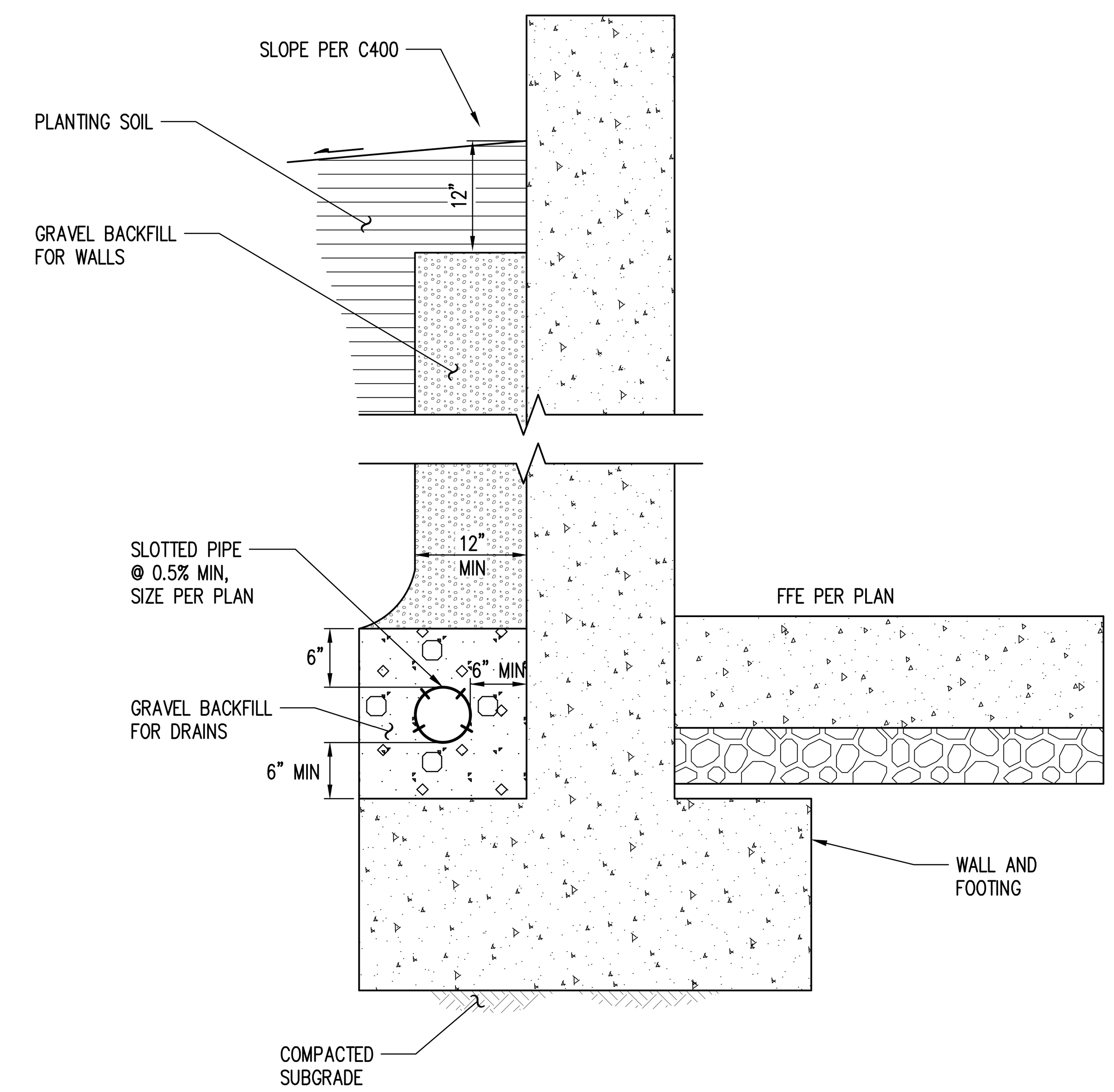
C450



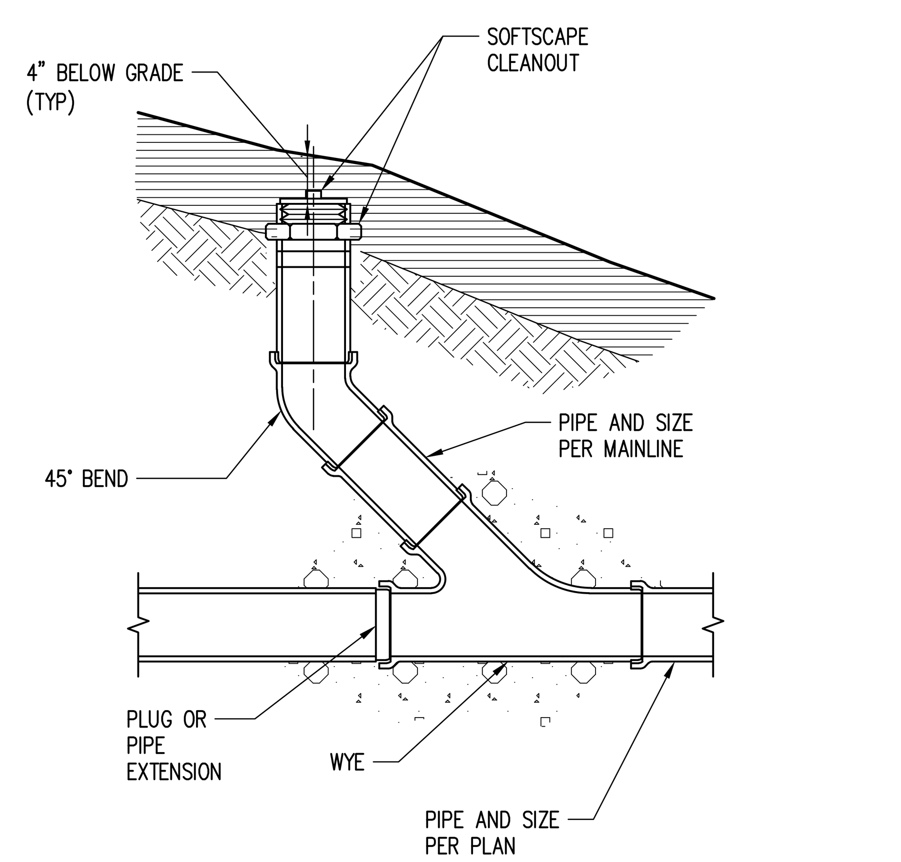
CLEANOUT 1
NTS C450, C440



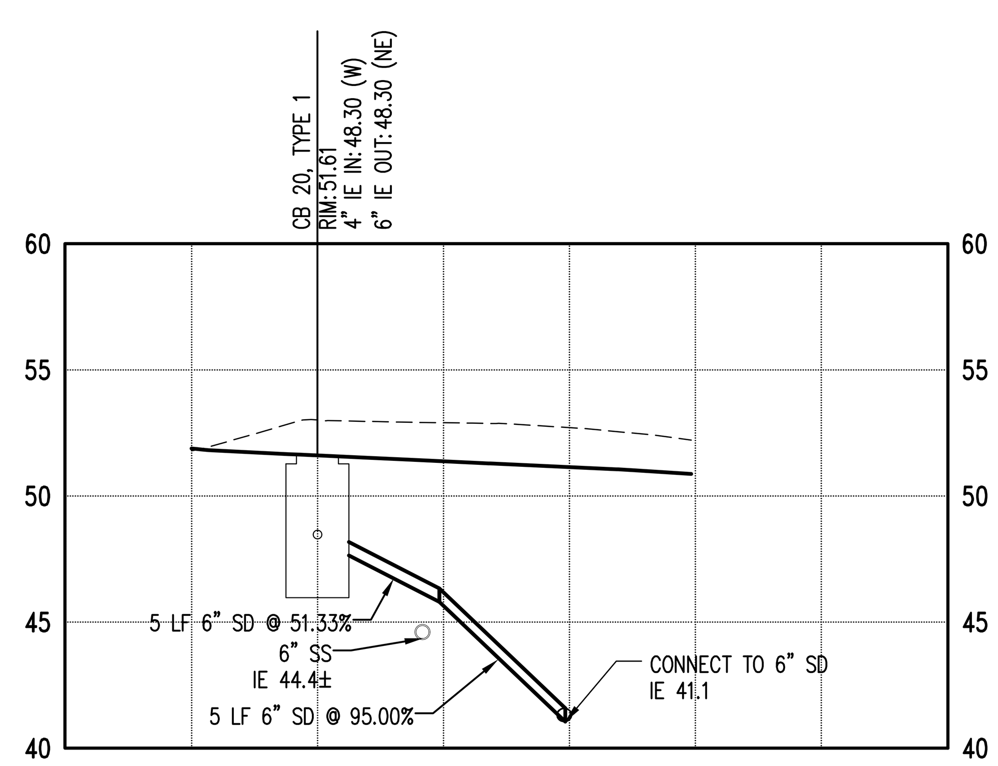
SLAB STEP DRAIN 2
NTS C450



PERIMETER DRAIN 3
NTS C450



CLEANOUT IN SOFTSCAPE AREA 4
1" = 5' C450



FD CONNECTION A
1" = 5' C450

Feb 22, 2024 - 6:19pm KyleA Z:\2000001-2009999\2000430 Salmon Bay\CADD\Design\SDCI-East\SBSE-C450-FNDN.dwg

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SDCI 6826187-CN

PROJECT NO.:
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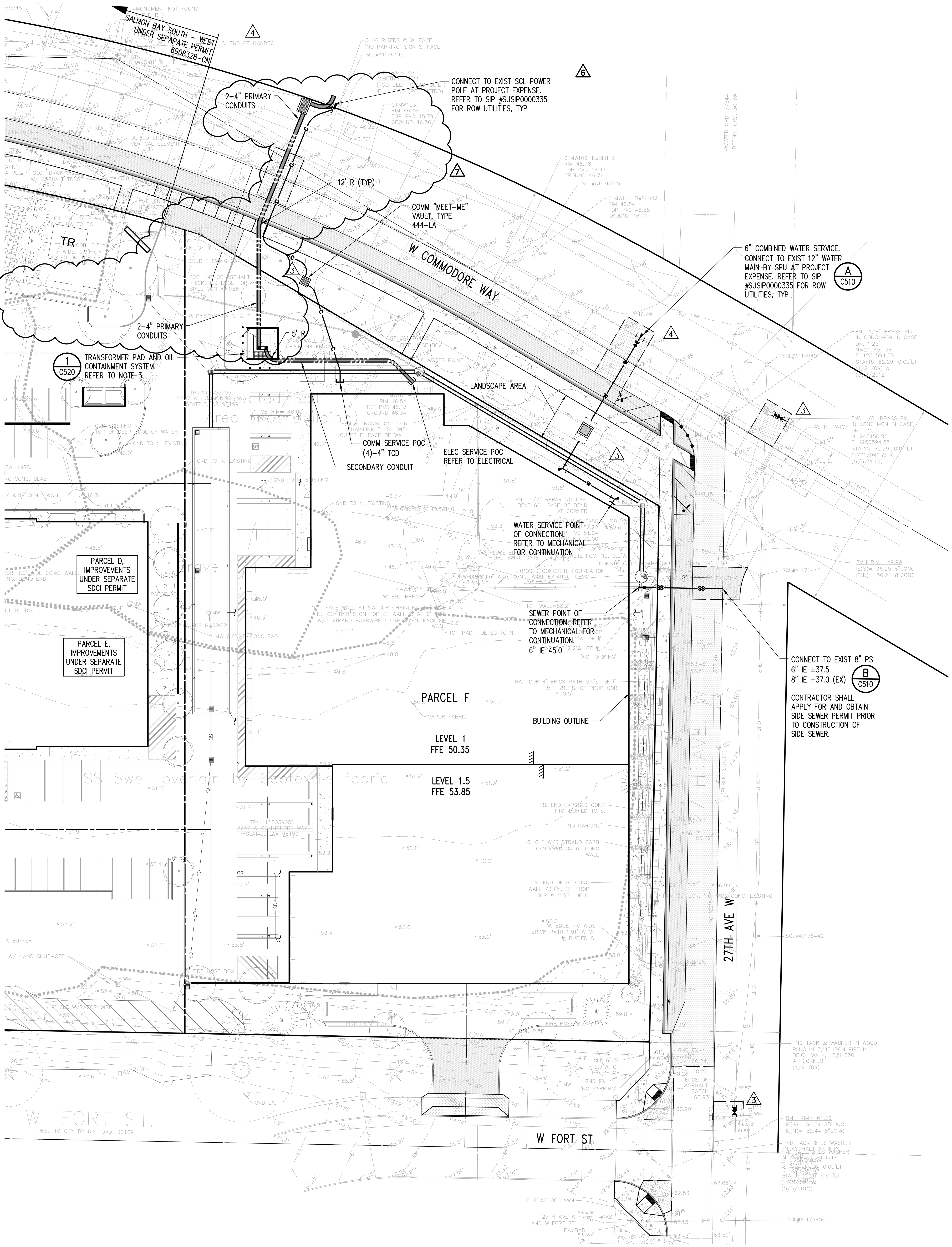
FOUNDATION DRAINAGE DETAILS

C460



LEGEND

- PROPERTY LINE
- ROW LINE
- BLDG OUTLINE
- STORM DRAIN PIPE
- SANITARY SEWER PIPE
- WATER LINE
- COMMUNICATION CONDUIT
- ELECTRICAL POWER DUCT BANK
- UTILITY CAP
- WATER GATE VALVE
- WATER FITTING W/ THRUST BLOCK
- WATER METER VAULT
- SCL VAULT TYPE 712-LA
- COMMUNICATION "MEET ME" VAULT

NOTES

1. PROVIDE VERTICAL BENDS PAST SPU UNION POINT TO MEET BUILDING POC ELEVATION.
2. CONTRACTOR IS ALERTED TO THE PRESENCE OF CONTAMINATION ON THE SITE. REFER TO C100, NOTE 1.
3. CIVIL PROVIDING HORIZONTAL LOCATION AND ROUTING OF CONDUITS AND OIL CONTAINMENT PAD. ELECTRICAL CONDUIT TYPE AND SIZE AND TRANSFORMER PER SCL AND ELECTRICAL.
4. INSTALL SCL ELECTRICAL SERVICE PER SCL STANDARDS AND GUIDELINES.

0 10' 20' 40'
1 inch = 20 feet

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06/10/24	5	RFI #080
08/01/24	6	SCL REVISIONS
10/29/24	7	SCL REVISIONS

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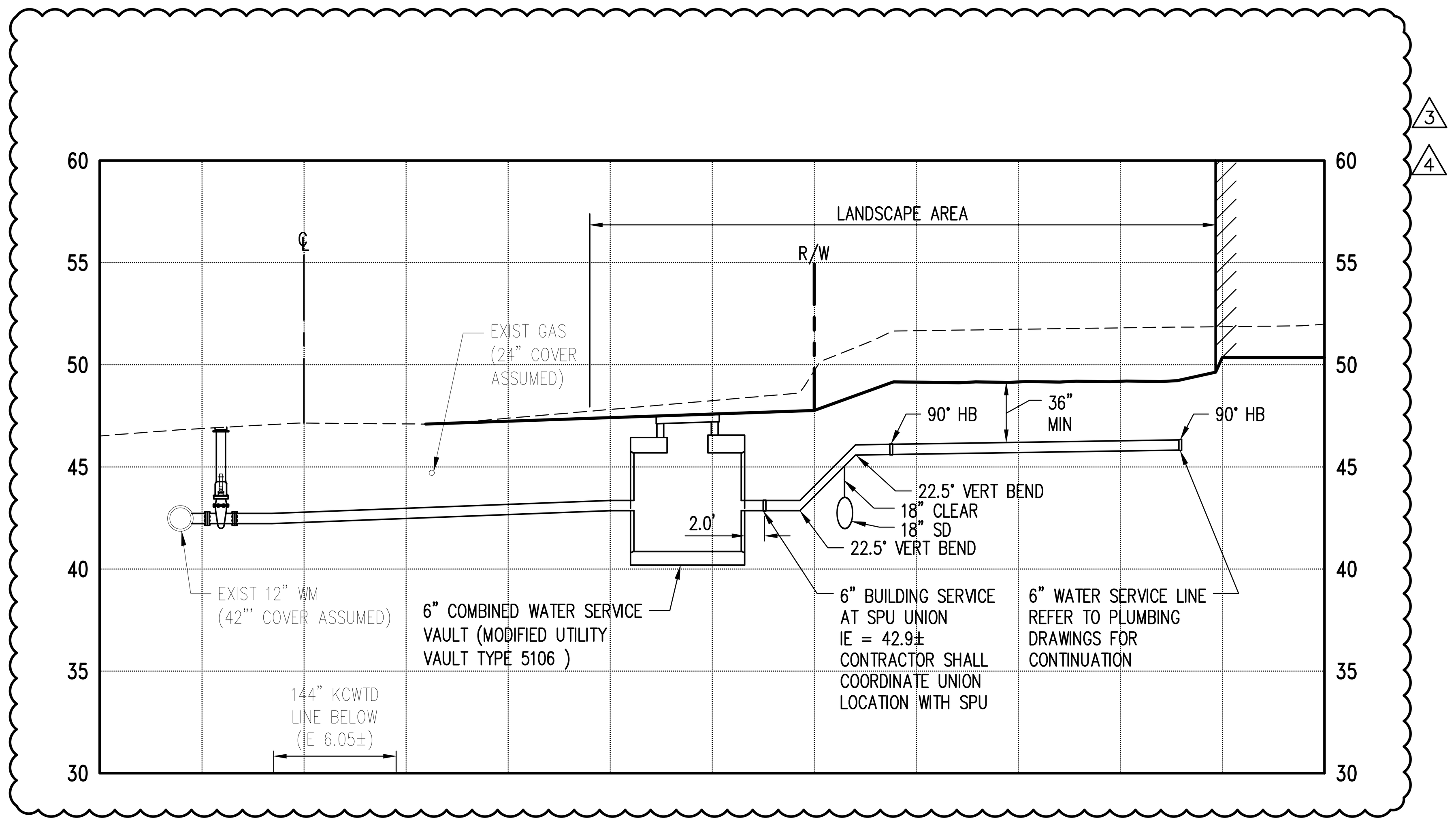
PROJECT NO.:
PROJECT MGR.:
DRAWN BY:
CHECKED BY:

UTILITY PLAN

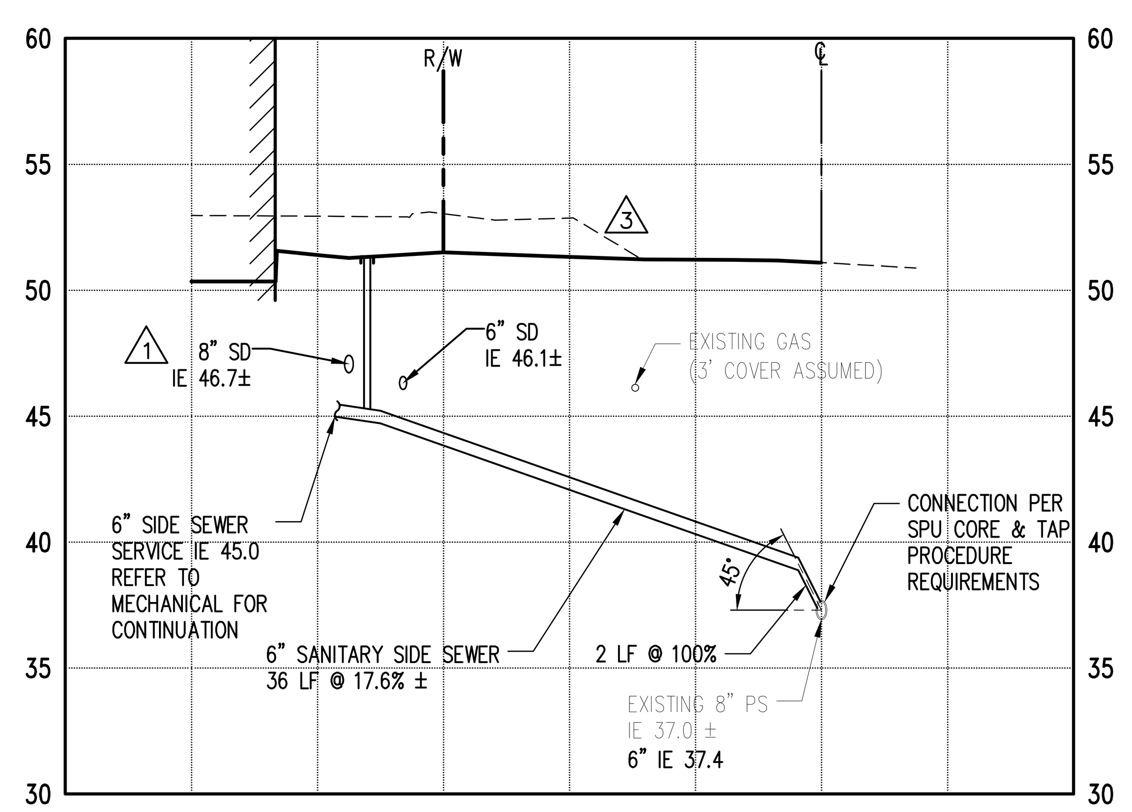
C500

NOTES

1. CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITY CROSSINGS PRIOR TO UTILITY LINE AND VAULT INSTALLATION. CONTRACTOR SHALL NOTIFY ENGINEER IF VERTICAL AND HORIZONTAL LOCATIONS FOR EXISTING UTILITIES ARE NOT CONSISTENT WITH PLANS.
2. VAULT SHOWN FOR REFERENCE. SPU MAY CHOOSE DIRECT BURY INSTALLATION IN LIEU OF VAULT.
3. PRIOR TO CONSTRUCTION, VERIFY WITH SPU THE VAULT TYPE TO BE INSTALLED. SPU MAY INSTALL 575 VAULT DEPENDING ON AVAILABILITY OF MECHANICAL COMPONENTS.



WATER SERVICE PROFILE
SCALE: H: 1"=10' V: 1"=5'
A
C500



SANITARY SIDE SEWER PROFILE
SCALE: H: 1"=10' V: 1"=5'
B
C500

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DATE	NO.	DESCRIPTION
06/02/23	1	BID ADDENDUM
06/16/23	2	BID ADDENDUM
10/04/23	3	IFC SET
02/22/24	4	CONSTRUCTION BULLETIN #6

SDCI 6826187-CN

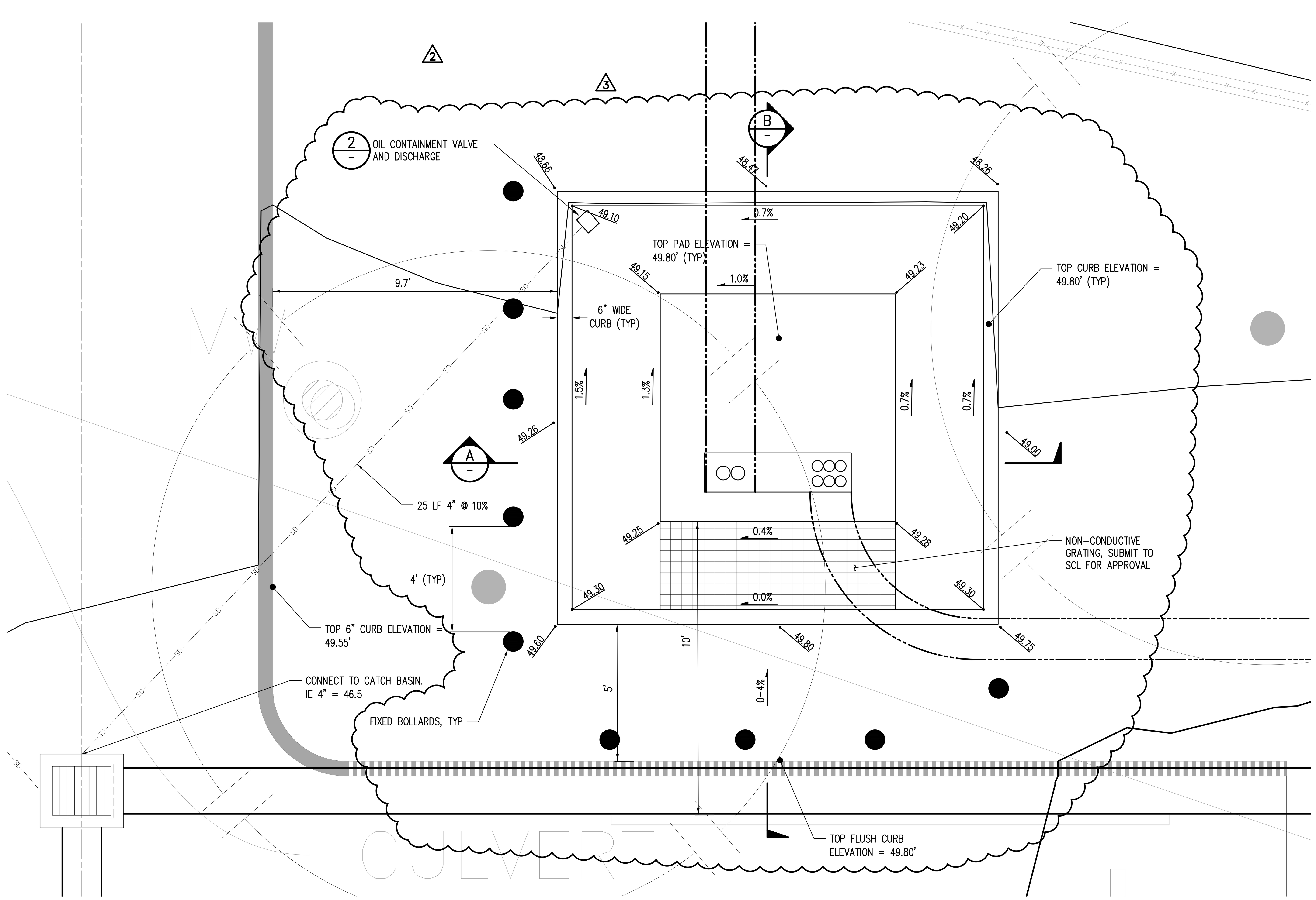
PROJECT NO.:
PROJECT MGR.:
DRAWN BY:
CHECKED BY:

UTILITY DETAILS

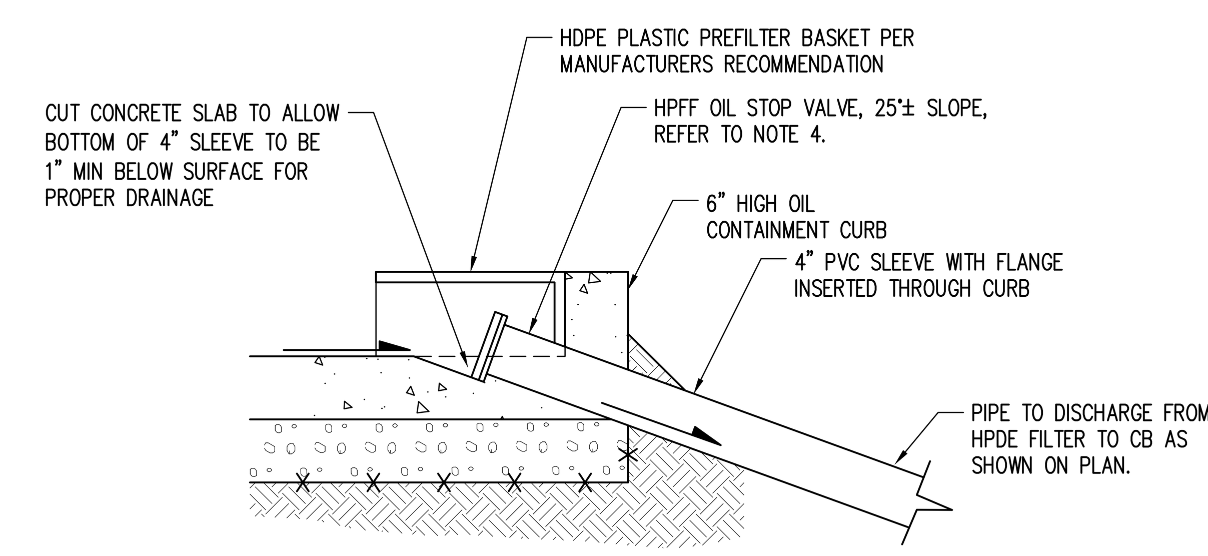
C510

Call 811 two business days before you dig

Feb 22, 2024 - 6:18pm KyleA Z:\2000001-2009999\2000430 Salmon Bay\CAD\Design\SDO-East\SBSE-C500-UTIL.dwg



OIL CONTAINMENT ENLARGEMENT DETAIL 1 C500
SCALE: 1" = 2'



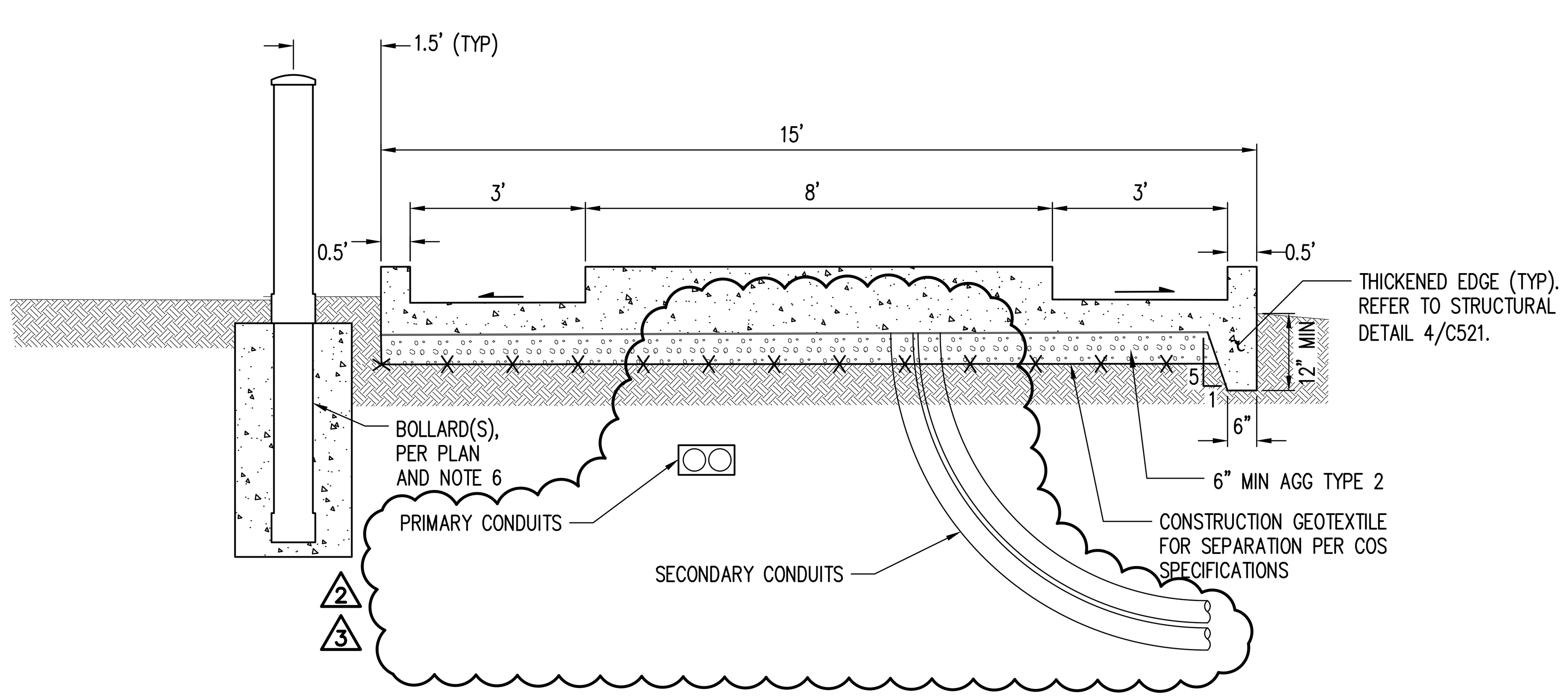
OIL CONTAINMENT VALVE AND DISCHARGE DETAIL 2 –
SCALE: 1" = 1'

NOTES

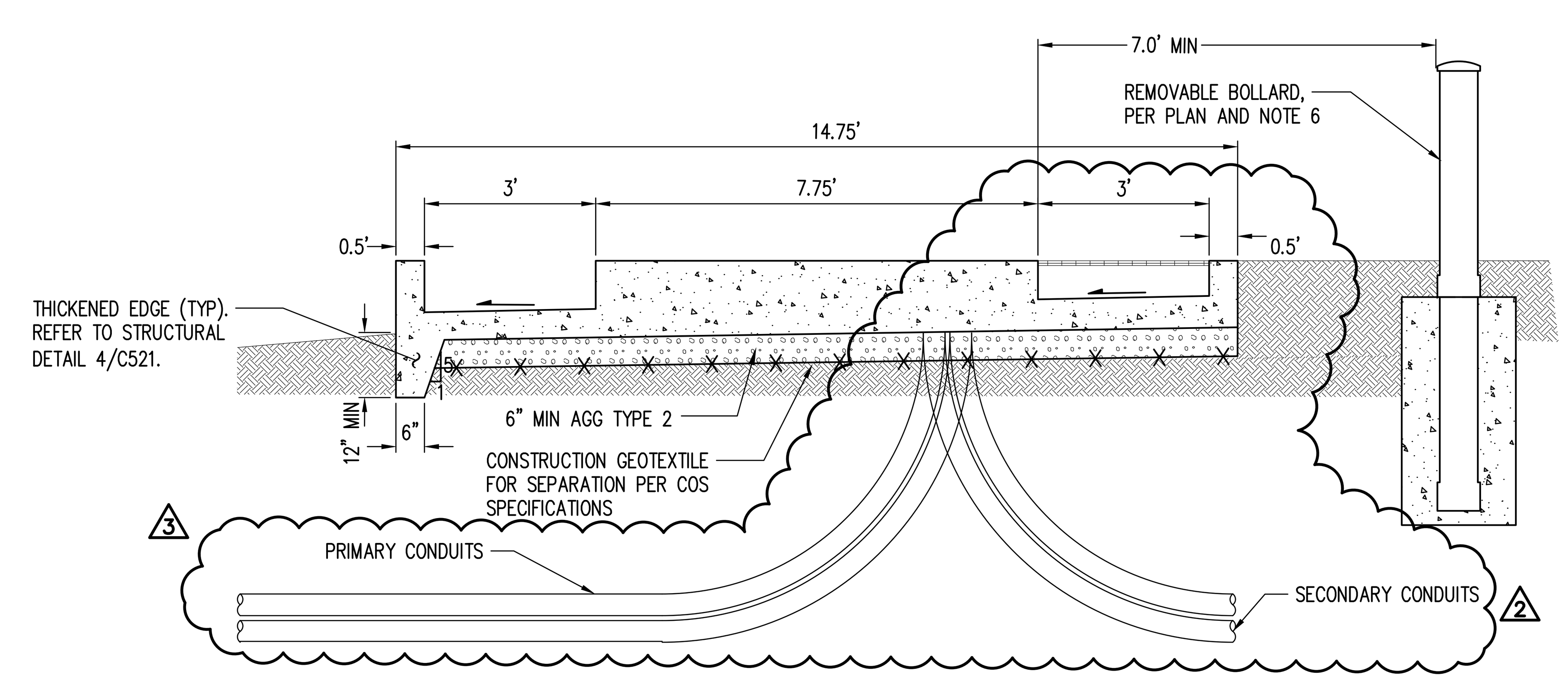
1. TRANSFORMER PAD, ASSOCIATED GROUNDING, AND OIL CONTAINMENT SYSTEM SHALL BE INSTALLED PER SCL CONSTRUCTION AND MATERIAL STANDARDS.
2. CONCRETE PAD/SLAB REINFORCING PER C521.
3. ALL CONCRETE JOINTS AND GAPS SHALL BE SEALED WITH A CONSTRUCTION NON-SHRINK SEALANT TO PREVENT POTENTIAL TRANSFORMER INSULATING FLUID LEAKS INTO THE NATIVE SOIL. THE SEALANT MATERIAL SHALL BE SUITABLE FOR EXTERIOR USE AND SHALL NOT DEGRADE FROM CONTACT WITH ESTER TYPE (ENVIROTEMP FR-3 ESTERIFIED VEGETABLE OIL) TRANSFORMER INSULATING FLUID.
4. HFF OIL STOP VALVE SHALL BE MANUFACTURED AND INSTALLED TO STOP ENVIROTEMP FR-3 ESTERIFIED VEGETABLE OIL USED IN SCL TRANSFORMERS. INSTALL VALVE PER MANUFACTURER AND SCL REQUIREMENTS.
5. CONTRACTOR SHALL COORDINATE WITH THE SCL INSPECTOR FOR INSPECTION OF THE OIL CONTAINMENT SYSTEM, INCLUDING A FINAL FLOW TEST TO CONFIRM WATER FLOWS TO THE COLLECTION POINT AND THROUGH THE HFF OIL STOP VALVE.
6. FIXED BOLLARDS SHALL BE 8" DIA CONCRETE FILLED BOLLARDS (CEME-TUBE) PAINTED "TRAFFIC YELLOW", OR APPROVED EQUIVALENT PER SCL STANDARDS. REMOVABLE BOLLARDS SHALL BE PER COS STANDARD DETAIL #464. INSTALL BOLLARDS NO MORE THAN 4 FEET APART.
7. REQUIRED OIL CONTAINMENT SYSTEM STORAGE CAPACITY

OIL (PER SCL MATERIAL STANDARD 4240.00)	= 245 GAL
RAINWATER (2.06", MEAN 24-HR STORM)	= 135 GAL
TOTAL REQUIRED CAPACITY	= 380 GAL
PROVIDED STORAGE CAPACITY	= 490 GAL

8. CONDUIT HORIZONTAL ROUTING PER C500 VERTICAL ROUTING TO BE FIELD LOCATED AND IN ACCORDANCE WITH SCL STD #0224.07



OIL CONTAINMENT SECTION A A –
SCALE: 1" = 2'



OIL CONTAINMENT SECTION B B –
SCALE: 1" = 2'

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DATE	NO.	DESCRIPTION
02/22/24	1	CONSTRUCTION BULLETIN #6
08/01/24	2	SCL REVISIONS
10/29/24	3	SCL REVISIONS

SDCI 6826187-CN

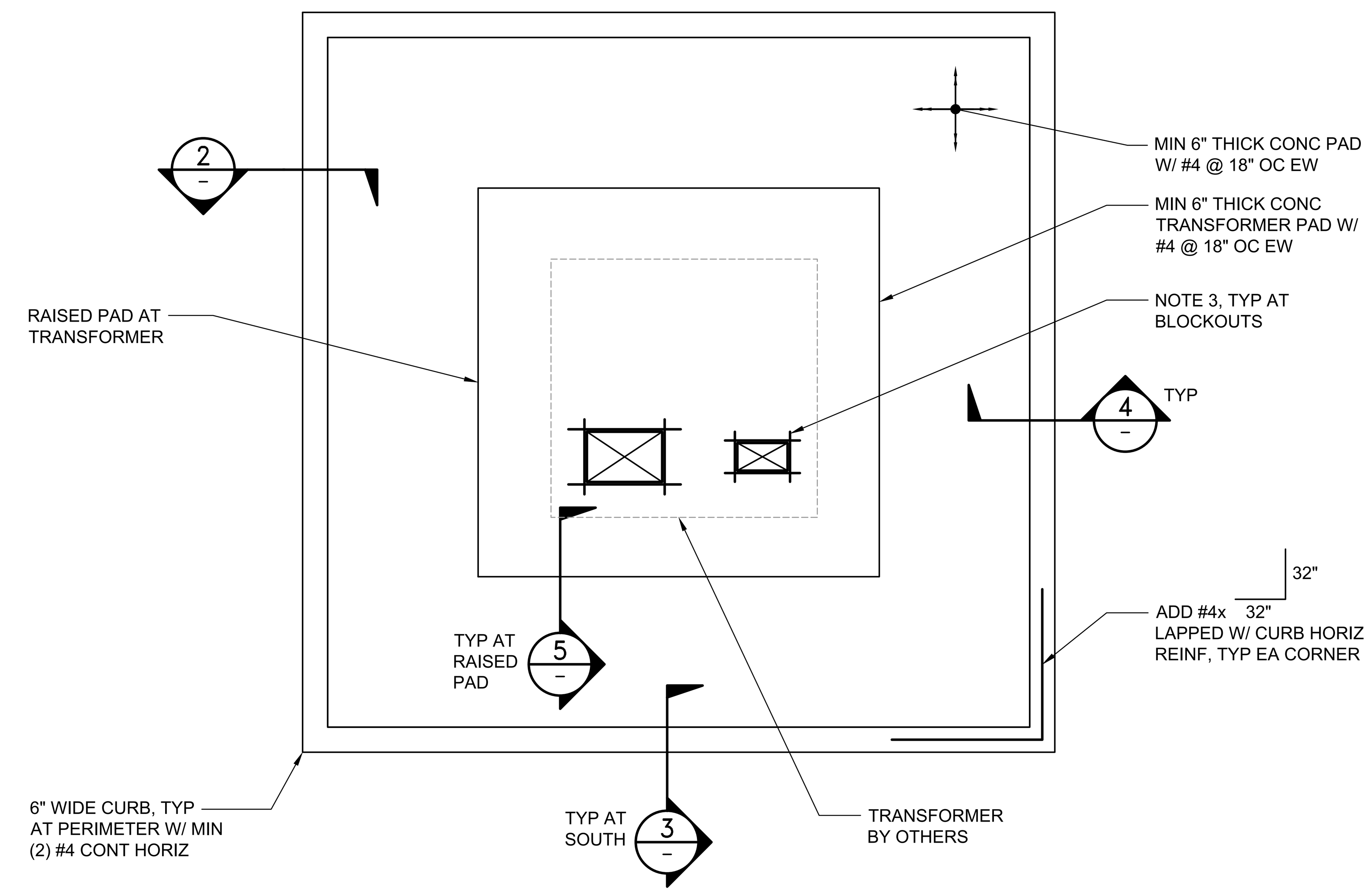
PROJECT NO.:
PROJECT MGR.:
DRAWN BY:
CHECKED BY:

OIL CONTAINMENT SYSTEM

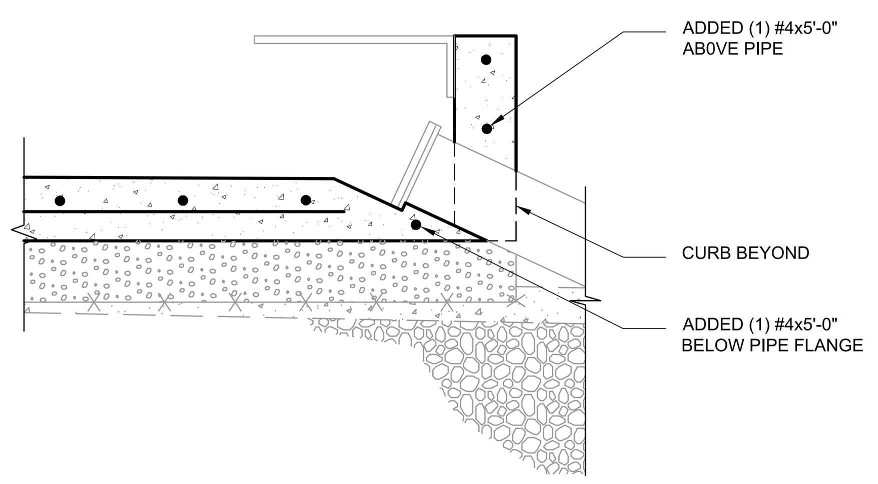
C520

NOTES

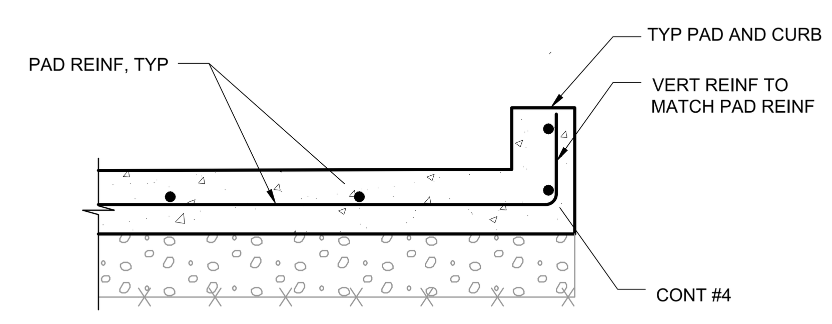
1. SEE SHEET C520 FOR PAD AND CURB EXTENTS AND ELEVATIONS.
2. CONTRACTOR TO COORDINATE UTILITY BLOCKOUTS WITH TRANSFORMER LOCATION.
3. PROVIDE (2) #5 TRIM REINFORCING AT MID-DEPTH, TYP EACH SIDE OF BLOCKOUTS. EXTEND TRIM REINFORCING MINIMUM 3'-1" BEYOND BLOCKOUT EDGES.
4. PADS AND CURBS TO HAVE MINIMUM f'c = 4,500 PSI AT 28 DAYS AND EXPOSURE CLASS F1, S0, W0, C1.
5. ANCHOR TRANSFORMER TO PAD PER 6/–.



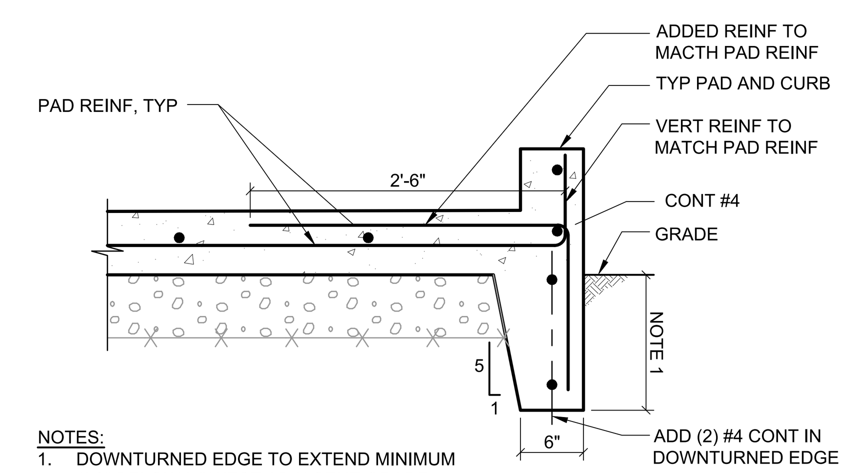
OIL CONTAINMENT PLAN 1 / C510
SCALE: 1" = 2'



BLOCKOUT AT DISCHARGE PIPE 2 / –
SCALE: 1" = 1'-0"

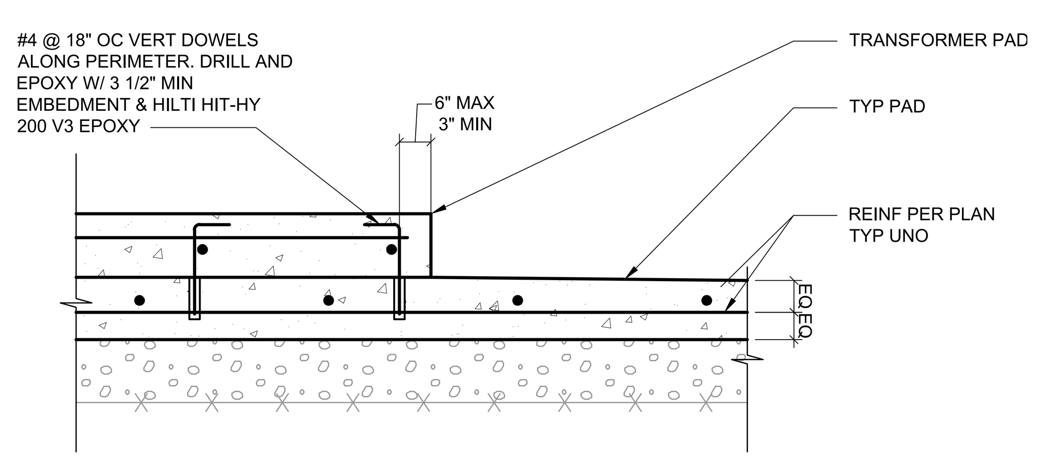


TYPICAL PAD EDGE – SOUTH 3 / –
SCALE: 1" = 1'-0"

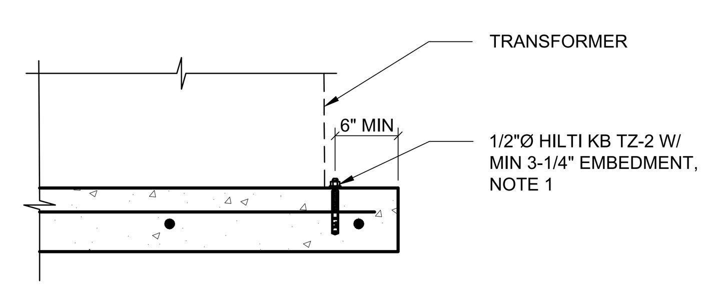


NOTES:
1. DOWNTURNED EDGE TO EXTEND MINIMUM 1'-0" BELOW LOWEST ADJACENT GRADE.

TYPICAL PAD EDGE WITH DOWNTURN 4 / –
SCALE: 1" = 1'-0"



TYPICAL RAISED PAD AT ANCHORAGE 5 / –
SCALE: 1" = 1'-0"



NOTES:
1. PROVIDE MIN (2) ANCHORS IN HOLD DOWN BRACKETS EA SIDE OF TRANSFORMER (8 ANCHORS TOTAL). CENTER ANCHORS IN SLOTTED HOLES IN BRACKETS.

TRANSFORMER ANCHORAGE 6 / –
SCALE: 1" = 1'-0"

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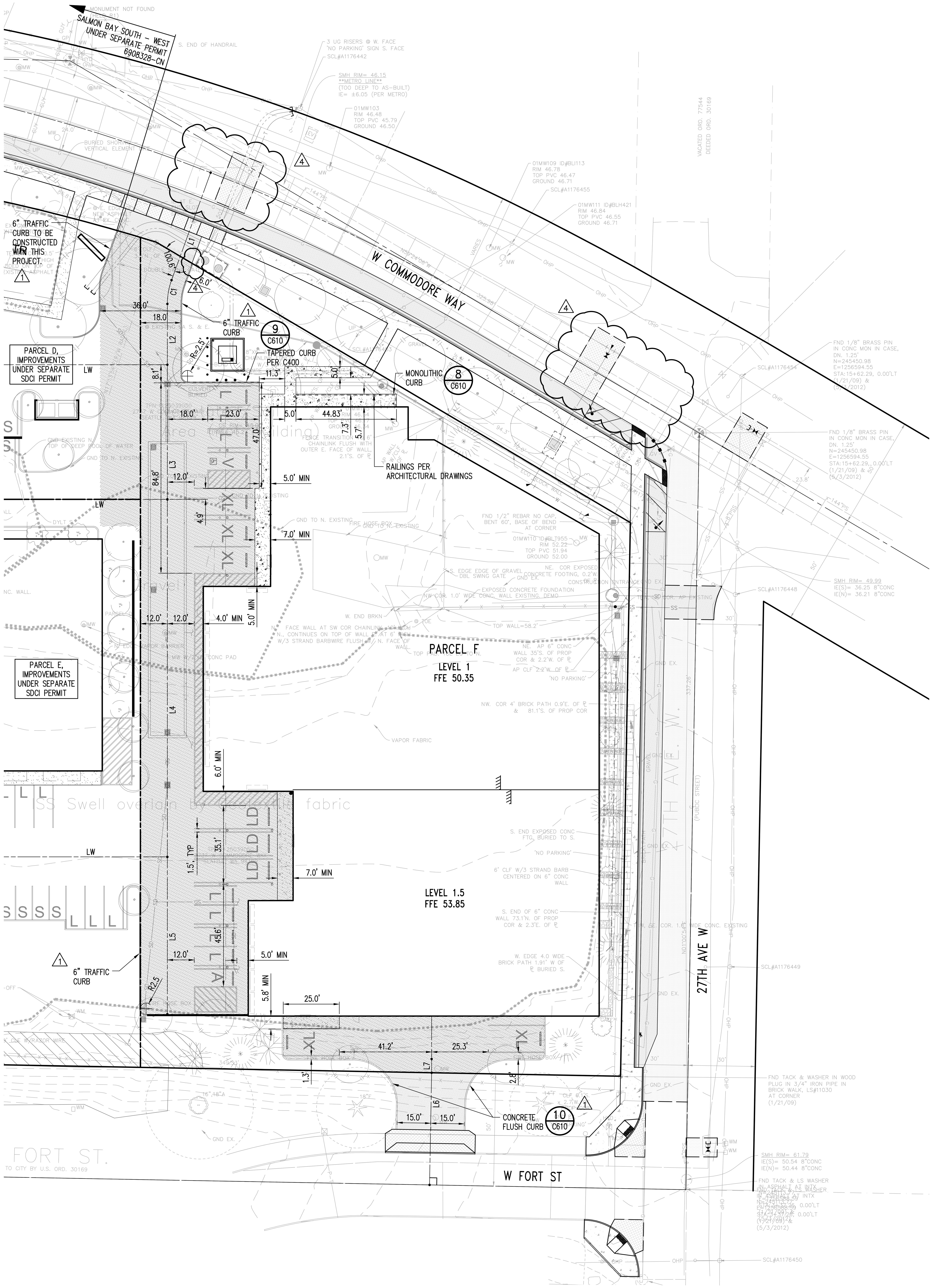
DATE	NO.	DESCRIPTION
02/23/24	1	CONSTRUCTION BULLETIN #6

SDCI 6826187-CN

PROJECT NO.:
PROJECT MGR.:
DRAWN BY:
CHECKED BY:

OIL CONTAINMENT SYSTEM

C521



LEGEND

- LOT LINE
- BUILDING OUTLINE
- BUILDING OVERHANG
- PROPERTY LINE
- ASPHALT PAVEMENT OVER 6" CSBC (2" CL ½" OVER 4" CL 1") PER COS STD PLAN 402C
- CONCRETE SIDEWALK PER COS STD PLAN 420
- FLUSH CONCRETE CURB 10 / C610
- 6" CONCRETE TRAFFIC CURB 9 / C610
- MONOLITHIC CURB 8 / C610
- A — ADA PARKING STALL 2 / C610
- V — ADA VAN PARKING STALL 2 / C610
- L — LARGE PARKING STALL 5 / C610
- LD — LOADING PARKING STALL 6 / C610
- XL — XL PARKING STALL 3 / C610

NOTES

1. PROJECT'S RIGHT-OF-WAY IMPROVEMENTS ARE BEING PERMITTED UNDER SDOT PERMIT NUMBER SUSIP0000335. STREET IMPROVEMENTS SHALL MEET COS STANDARD PLANS AND REQUIREMENTS. NON-STANDARD ITEMS OR FINISHES WILL BE COORDINATED AND APPROVED BY SDOT.
2. REFER TO C610 FOR PARKING STALL DETAILS.
3. DIMENSIONS TO CURBS REFER TO FACE OF CURB UNLESS NOTED OTHERWISE.
4. CONTRACTOR SHALL INSTALL ISOLATION JOINTS BETWEEN BUILDINGS AND CONCRETE PAVEMENT.
5. CONTRACTOR IS ALERTED TO THE PRESENCE OF CONTAMINATION ON THE SITE. REFER TO C100, NOTE 1.
6. ASPHALT PAVEMENT SECTION SHALL BE PER COS STD PLAN 402C (2" CL ½" OVER 4" CL 1" OVER 6" CSBC) AND CONSTRUCTED PER COS STD SPEC 5-04.3 AGGREGATE SHALL BE PER 9-03.8 AND ASPHALT SHALL BE PER 9-02.1(4).
7. CONCRETE SIDEWALK SECTION SHALL BE PER COS STD PLAN 420 AND CONSTRUCTED PER COS STD SPEC 8-14.3. CURBS AND GUTTER SHALL BE CONSTRUCTED PER COS STD SPEC 8-04.3. PORTLAND CEMENT CONCRETE SHALL BE PER COS STD SPEC 9-01 AND AGGREGATE SHALL BE PER COS STD SPEC SECTION 9-03. CONCRETE MIXTURES SHALL BE PER COS STD SPEC 6-02.3(2)A.

0 10' 20' 40'
1 inch = 20 feet

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02/23/24	4	CONSTRUCTION BULLETIN #6

JENIFER R. CLAPHAM STATE OF WASHINGTON PROFESSIONAL ENGINEER

SDCI 6826187-CN

PROJECT NO.:
PROJECT MGR.:
DRAWN BY:
CHECKED BY:

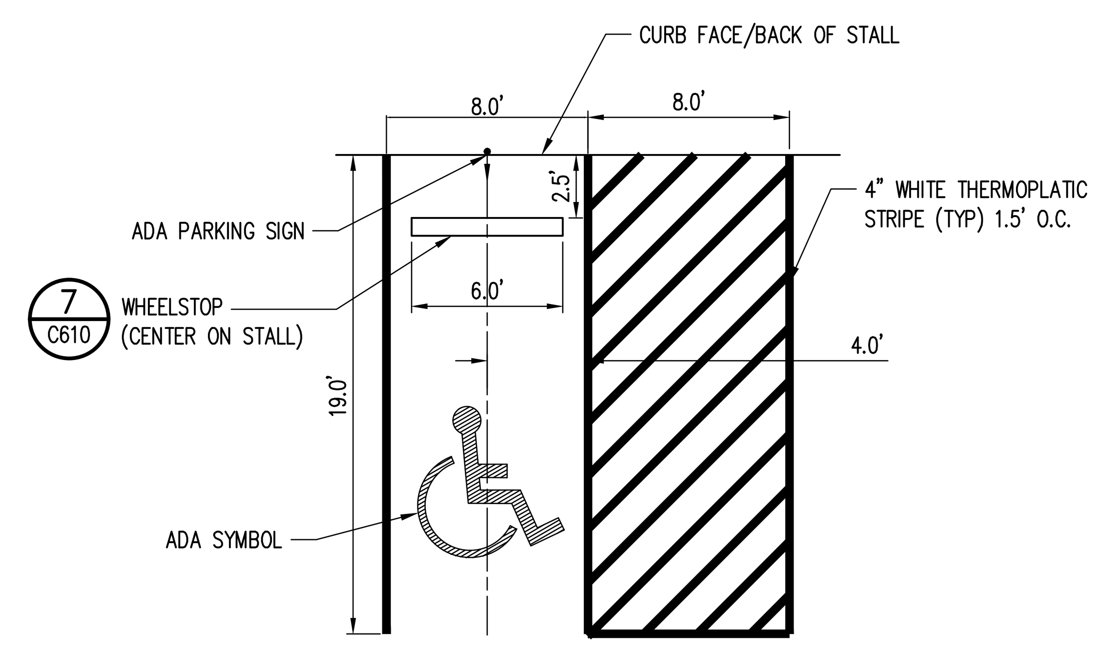
PAVING PLAN

C600

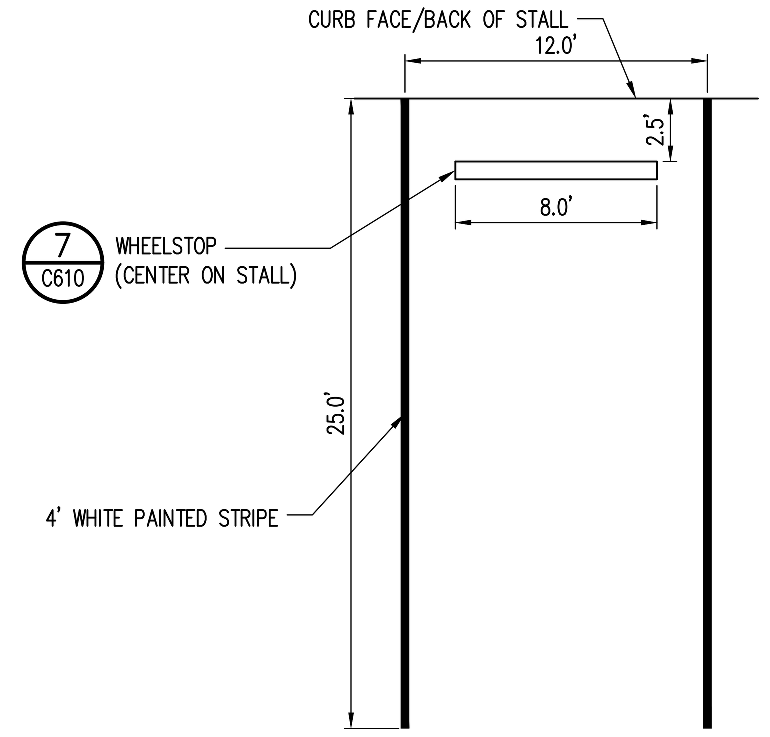
LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	50.97	S20° 00' 00"W
L2	27.11	S0° 00' 00"E
L3	60.00	S0° 00' 00"E
L4	159.33	S0° 00' 00"E
L5	70.12	S0° 00' 00"E
L6	49.99	S1° 03' 29"W
L7	6.12	N0° 00' 00"E

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C1	10.82	31.00	20.0000

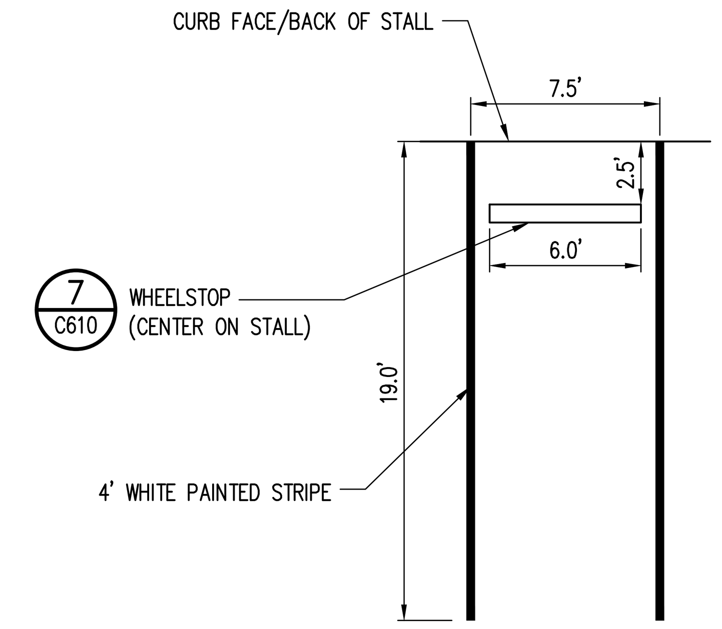
LINE AND CURVE TABLE 1 C600
NTS



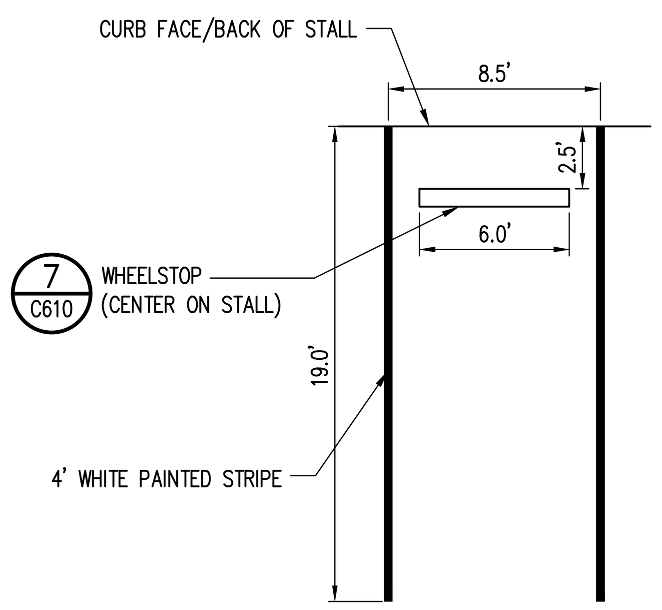
ADA PARKING STALL 2 C600
1" = 5'



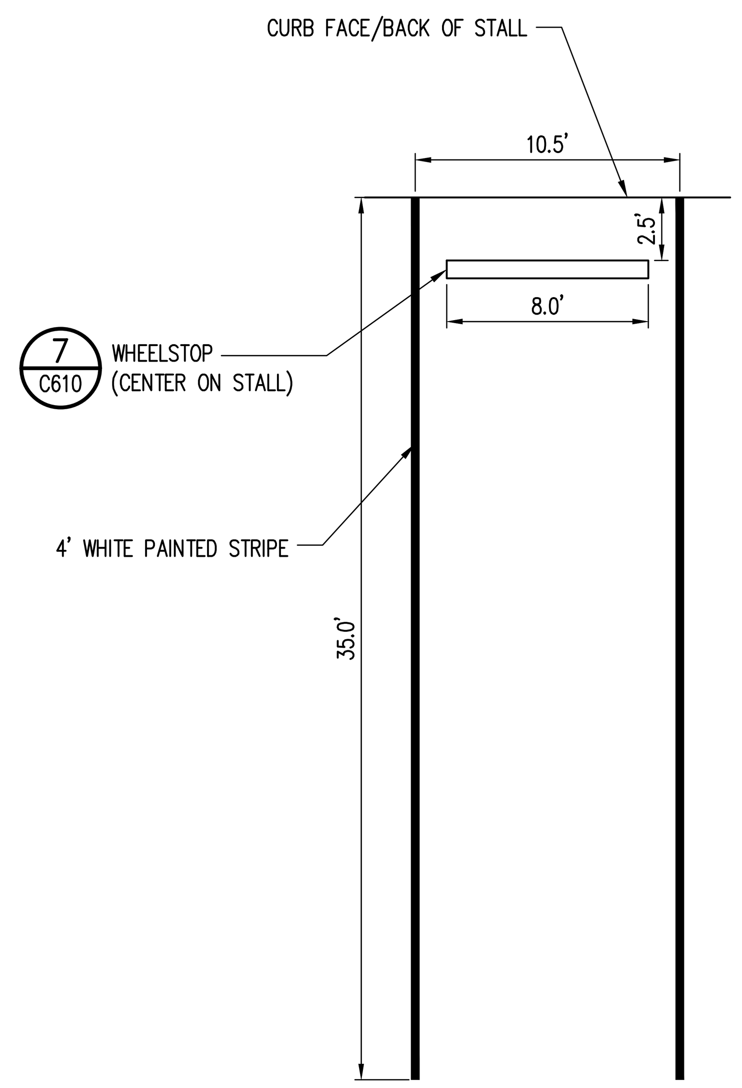
XL PARKING STALL 3 C600
1" = 5'



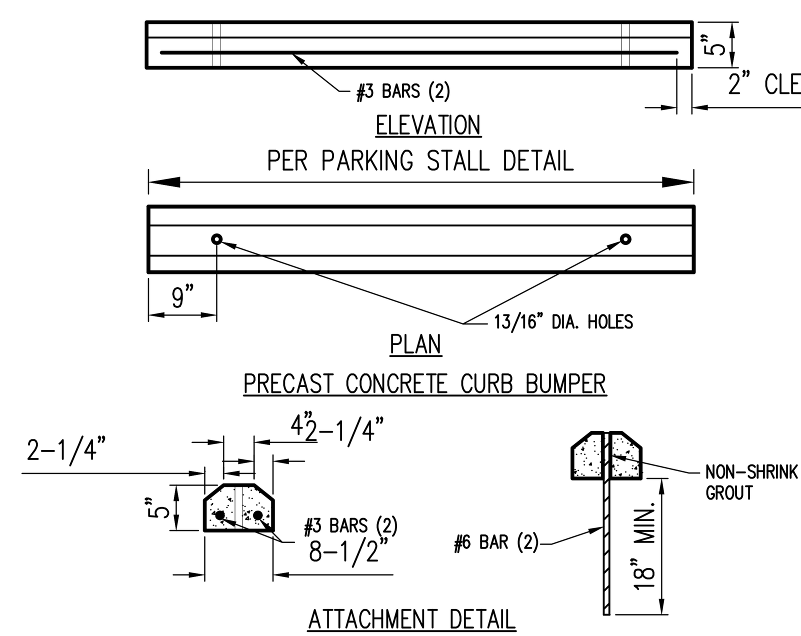
SMALL PARKING STALL 4 C600
1" = 5'



LARGE PARKING STALL 5 C600
1" = 5'



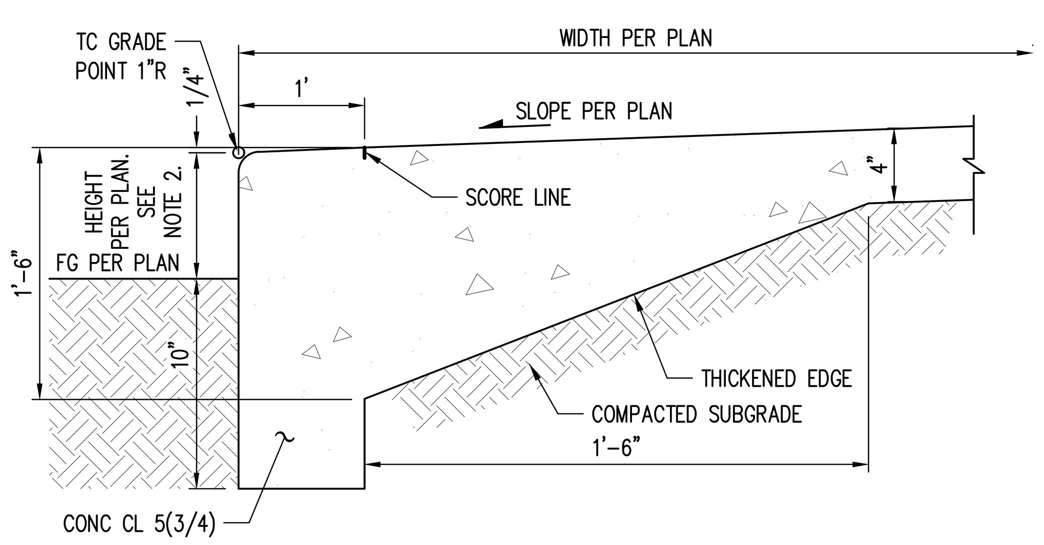
LOADING STALL 6 C600
1" = 5'



NOTES

1. THE NON-SHRINK GROUT USED SHALL CONSIST OF 3:1 SAND AND CEMENT. GROUT TO A DEPTH OF 1" FROM THE TOP OF THE BUMPER.
2. LOCATIONS FOR WEEPHOLES, AND V-SLOTS SHALL BE IDENTIFIED ON THE DELIVERY ORDER DRAWINGS.
3. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF AT LEAST 3000 PSI AT 28 DAYS.

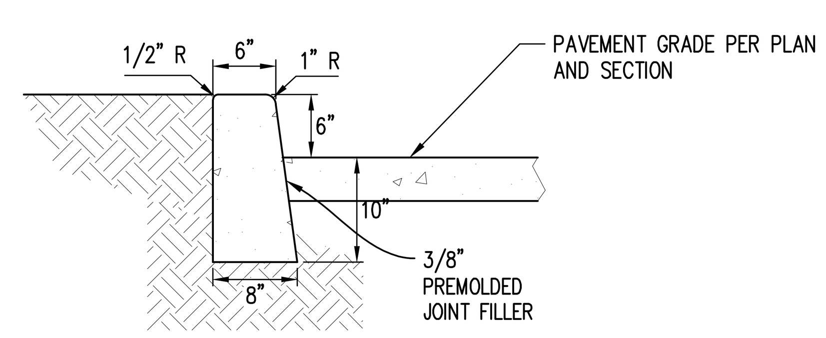
WHEEL STOP 7 C600
NTS



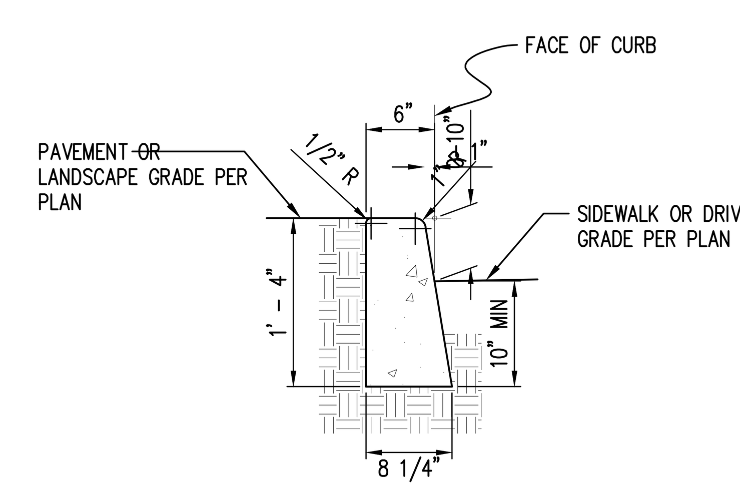
NOTES:

1. VERTICAL BACKFACE OF CURB SHALL BE FORMED AGAINST NATIVE EARTH WHERE PRACTICAL, OTHERWISE BY BACKFORM LEFT IN PLACE.
2. SEE C400 FOR CURB HEIGHTS.

CONCRETE SIDEWALK WITH MONOLITHIC CURB 8 C400, C600
NTS



6" CONCRETE TRAFFIC CURB
MODIFIED WSDOT STANDARD PLAN F-10.12-04 9 C400, C600
NTS



CONCRETE FLUSH CURB
MODIFIED WSDOT STANDARD PLAN F-10.12-04 10 C400, C600
NTS

Z:\2000001-2009999\2000430 Salmon Bay\CAD\Design\SDD-East\SBSE-C600-PAVE.dwg
KyleA
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02/23/24	4	CONSTRUCTION BULLETIN #6

JENIFER R. CLAPHAM
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
2024-02-22

SDCI 6826187-CN

PROJECT NO.:
PROJECT MGR.:
DRAWN BY:
CHECKED BY:

PAVING DETAILS

C610

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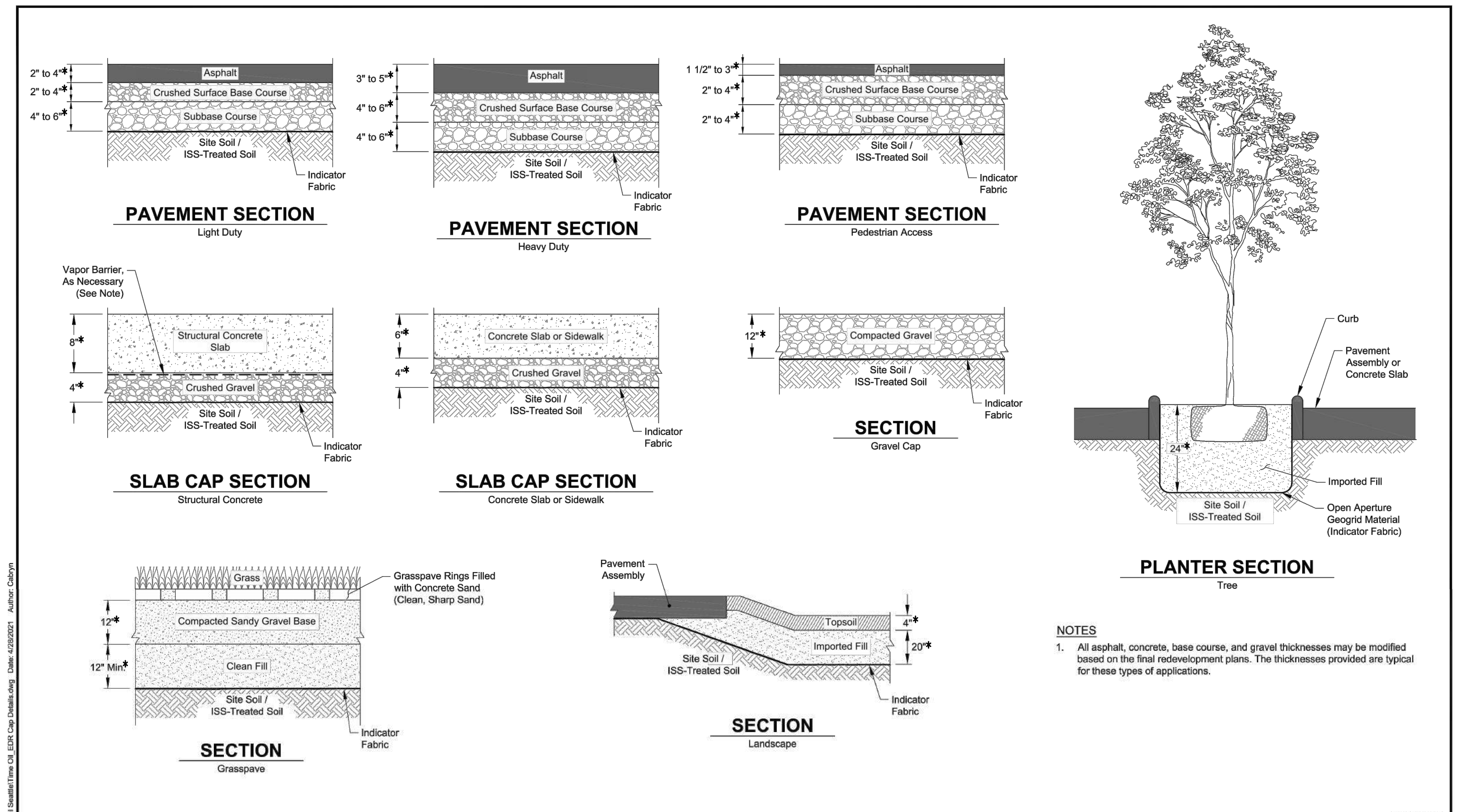

NOTES

1. All asphalt, concrete, base course, and gravel thicknesses may be modified based on the final redevelopment plans. The thicknesses provided are typical for these types of applications.

Not to Scale

CRETE CONSULTING, INC.

Engineering Design Report
Time Oil Bulk Terminal
Seattle, Washington

Figure 14
Typical Final Cap Details

File: D:_Projects\Crete\Time Oil Seattle\Time Oil_EDR Cap Details.dwg Date: 4/28/2021 Author: Cabryn

*REFER TO PLANS AND LEGEND FOR ACTUAL DIMENSIONS

PAVING SECTIONS 8

NTS

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06/16/23	2	BID ADDENDUM
10/04/23	3	IFC SET
02/22/24	4	CONSTRUCTION BULLETIN #5

JENIFER R. CLAPHAM, STATE OF WASHINGTON, 40799, REGISTERED PROFESSIONAL ENGINEER, 2024-02-22

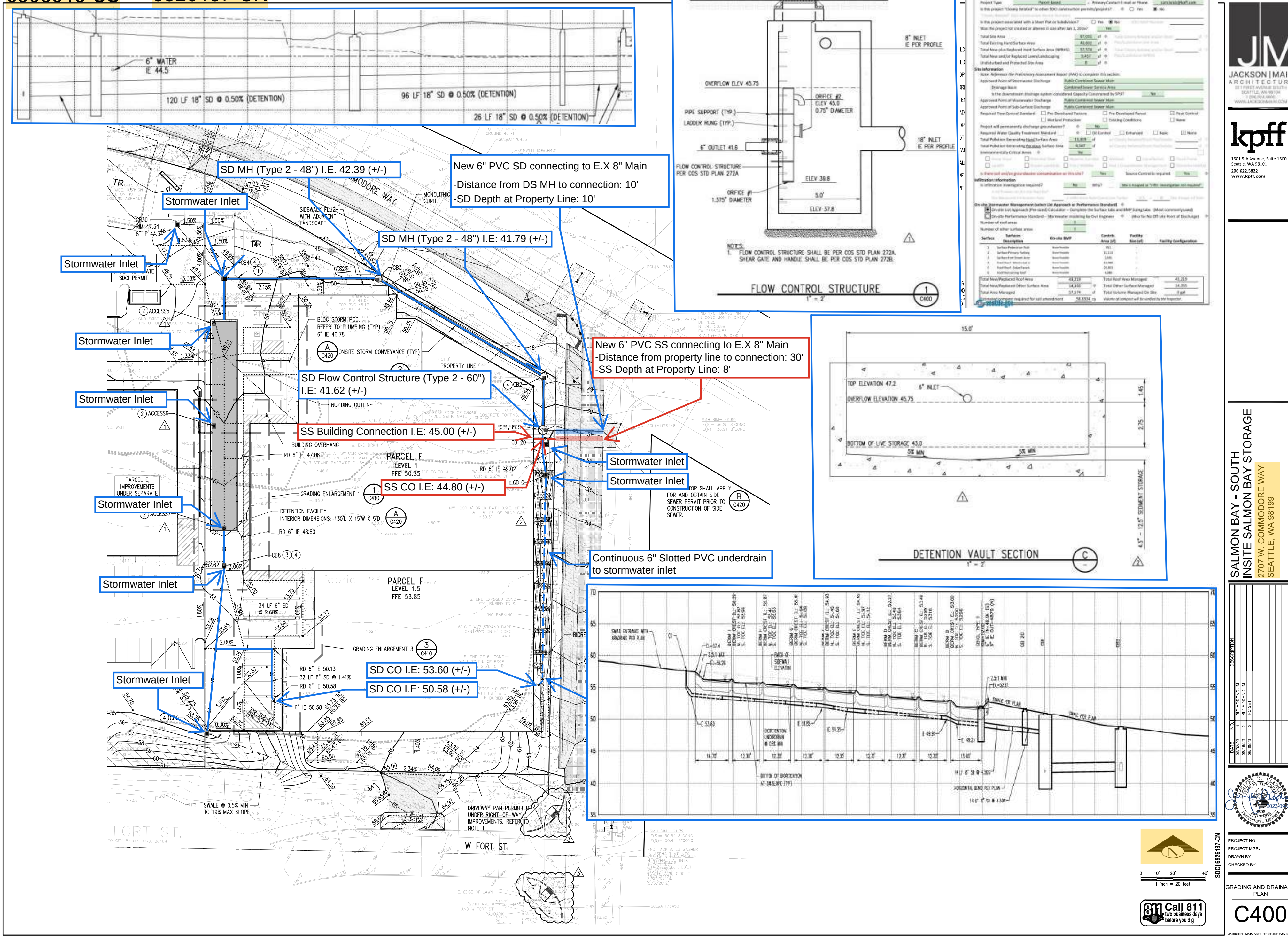
SDCI 6826187-CN

PROJECT NO.:
PROJECT MGR.:
DRAWN BY:
CHECKED BY:

PAVING DETAILS

C611

6995315-SS 6826187-CN



100% Complete Street Improvement Plan

INSITE SALMON BAY STORAGE

2707 W COMMODORE WAY, SEATTLE

STREET IMPROVEMENT PERMIT

100% SUBMITTAL

CONTAMINATION NOTICE:

THIS SITE WAS HISTORICALLY AN OIL STORAGE FACILITY AND RECENTLY UNDERWENT REMEDIATION ACTIVITIES, IN COORDINATION WITH DEPARTMENT OF ECOLOGY, TO REMOVE AND CONTAIN CONTAMINATED SOILS LOCATED ON AND ADJACENT TO THE SITE. IN SITU STABILIZATION/SOLIDIFICATION (ISS) METHODS WERE IMPLEMENTED IN REGIONS OF THE SITE, AND SWELL SPOILS WERE STOCKPILED IN THE SOUTHERN PORTION OF THE SITE NEAR WEST FORT STREET. THESE AREAS ARE DOCUMENTED ON THE TOPOGRAPHIC SURVEY, BUT ARE NOT THE ONLY AREAS ONSITE THAT MAY HAVE CONTAMINATED MATERIALS. SITE GRADING AND UTILITY TRENCH EXCAVATIONS THAT INTERSECT (ISS) AREAS MAY REQUIRE SPECIALIZED EQUIPMENT OR METHODS DUE TO THE HIGH STRENGTH OF THE STABILIZED SOIL (50 TO 800 PSI 28-DAY COMPRESSIVE STRENGTH). PRIOR TO ANY WORK, REFER TO THE SREMP (SOIL AND REMEDIAL ELEMENT MANAGEMENT PLAN), PREPARED BY CRETE (JAMIE STEVENS jamie.stevens@creteconsulting.com), DATED 10/05/2022. A COPY OF THIS DOCUMENT SHALL BE ON SITE DURING CONSTRUCTION. SPECIFICALLY, CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SREMP REQUIREMENTS PERTAINING TO, BUT NOT LIMITED TO, COORDINATION WITH ECOLOGY, WORKER HEALTH AND SAFETY, EARTHWORK PLANNING, DELINEATION AND MANAGEMENT OF POTENTIALLY CONTAMINATED AND UNCONTAMINATED SOILS, CONSTRUCTION STORMWATER MANAGEMENT, AND DOCUMENTATION AND REPORTING REQUIREMENTS.

PROJECT DESCRIPTION

SURVEY INFORMATION

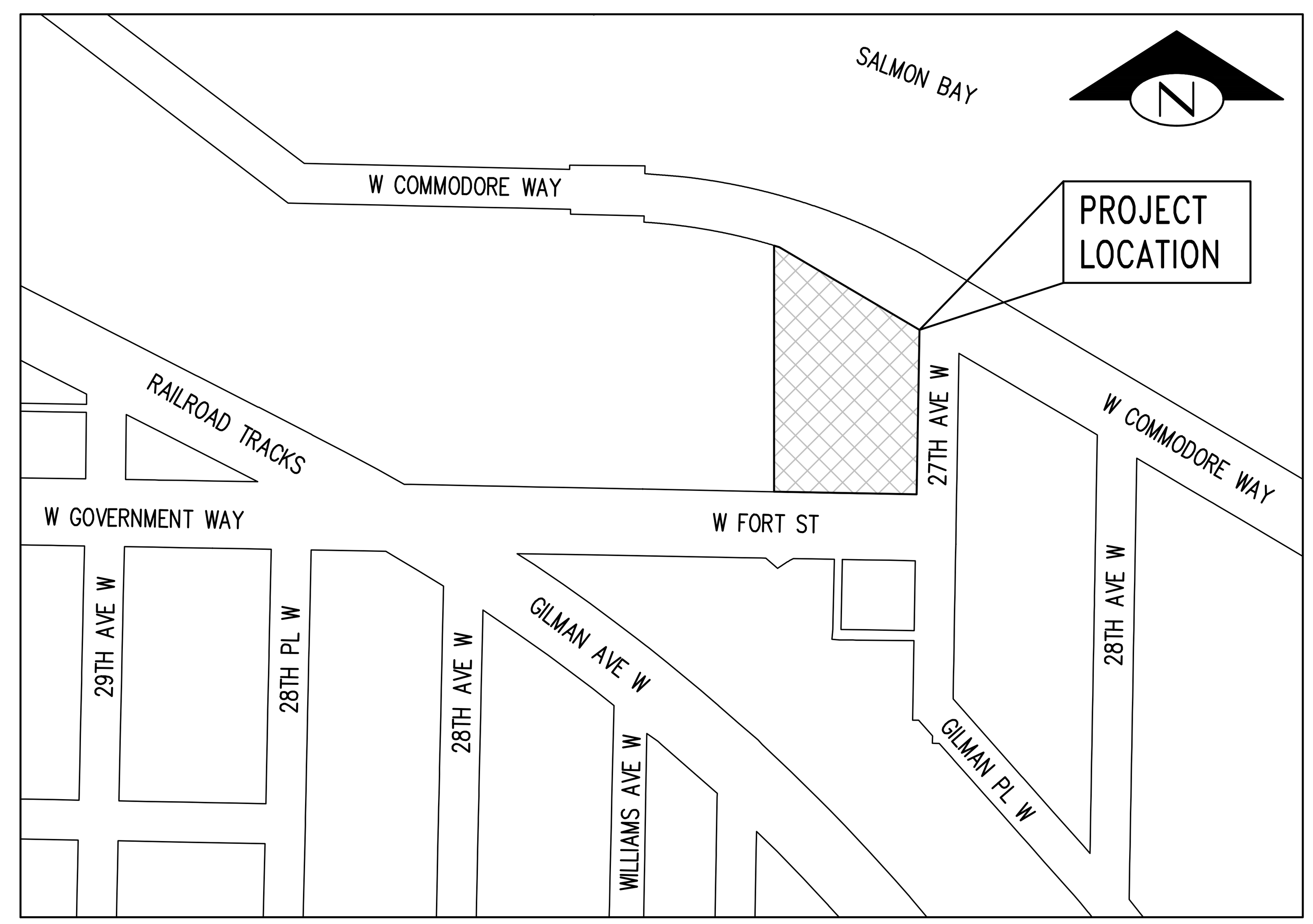
THE SURVEY PERFORMED BY AXIS SURVEY & MAPPING. REPRESENTS SITE CONDITIONS AS THEY EXISTED DURING THE PERFORMANCE OF A TOPOGRAPHIC SURVEY CONDUCTED ON OR BEFORE JUNE 6, 2022.

HORIZONTAL DATUM:
NAD 83/91

BASIS OF BEARING:
A BEARING OF N88°56'31"W FROM PUNCH IN BRASS DISK ON CONC MON IN ALUMINUM CASE AT THE INTERSECTION OF W. FORT ST. (W. GOVERNMENT WAY) AND 32ND AVE. W., AND A TACK AND WASHER AT THE INTERSECTION OF W. FORT ST. AND 27TH AVE. W.

VERTICAL DATUM:
NAVD 88

LEGAL DESCRIPTION:
REFER TO SURVEY



VICINITY MAP
SCALE: 1" = 200'

SHEET INDEX

SHEET NO.	TITLE
1	NOTES, SHEET INDEX, VICINITY MAP
2	NOTES
3	NOTES, LEGEND, ABBREVIATIONS
4	KEY MAP
5	W COMMODORE WAY PLAN AND PROFILE
6	W COMMODORE WAY PLAN AND PROFILE
7	27TH AVE W PLAN AND PROFILE
8	27TH AVE W PLAN AND PROFILE
9	W FORT ST PLAN AND PROFILE
10	SECTIONS AND DETAILS
11	SECTIONS AND DETAILS
12	SECTIONS AND DETAILS
13	WEST FORT STREET SECTIONS
14	SECTIONS AND DETAILS
15	LANDSCAPE PLAN
16	LANDSCAPE PLAN
17	LANDSCAPE PLAN
18	LANDSCAPE PLAN
19	LANDSCAPE PLAN
20	TOPOGRAPHIC SURVEY
21	TOPOGRAPHIC SURVEY
22	TOPOGRAPHIC SURVEY
23	TOPOGRAPHIC SURVEY
24	TOPOGRAPHIC SURVEY
25	TOPOGRAPHIC SURVEY
26	TOPOGRAPHIC SURVEY

CONTRACTOR IS ALERTED TO THE FACT THAT WORK WILL BE ACCOMPLISHED AROUND ACTIVE PSE GAS AND ENERGIZED SEATTLE CITY LIGHT (SCL) FACILITIES THAT ARE SERVING EXISTING CUSTOMERS. CONTRACTOR SHALL COORDINATE WITH PSE AND SCL TO DETERMINE WHICH FACILITIES ARE ACTIVE AND ENERGIZED AND SHALL IMPLEMENT SAFETY PROCEDURES PER PSE AND SCL REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH PSE AND SCL TO ENSURE THAT FACILITIES ARE IN PLACE TO MAINTAIN SERVICE TO CUSTOMERS THROUGHOUT CONSTRUCTION.

DATE	MARK	NATURE	MADE	CHK'D	REV'D

REVISIONS

Feb 22, 2024 – 6:27pm KyleA
Z:\2000001-2009999\2000430 Salmon Bay\CADD\Design\SIP-East\01 SIP-SBSE-COVER.dwg

JENIFER R. CLAPHAM, STATE OF WASHINGTON, 40799, REGISTERED PROFESSIONAL ENGINEER, 2024-02-22

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com

811 Call 811 two business days before you dig

APPROVED FOR SDOT PERMITTING	
ENGINEER/LA/SURVEYOR	SDOT PROJECT MANAGER
SPU/WATER ENGINEERING	SDOT SUPERVISOR
SPU/DRAINAGE	REVISED AS-BUILT

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS IN EFFECT ON THE DATE SHOWN ABOVE, AND SUPPLEMENTED BY SPECIAL PROVISIONS.

Seattle Department of Transportation

INSITE SALMON BAY STORAGE – SDCI PROJECT NUMBER: 6826187-CN

2707 W COMMODORE WAY
CURB, SIDEWALK & LANDSCAPE IMPROVEMENTS
NOTES, SHEET INDEX, VICINITY MAP

SDOT PROJECT NO. SUSIP0000335
VAULT PLAN NO. 792–809
VAULT SERIAL NO. 39383
SHEET 1 OF 26

100% Complete Street Improvement Plan

CITY OF SEATTLE GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE 2023 EDITION OF CITY OF SEATTLE STANDARD SPECIFICATIONS, THE 2023 EDITION OF THE CITY OF SEATTLE STANDARD PLANS; AND SEATTLE DEPARTMENT OF TRANSPORTATION DIRECTOR'S RULE 01-2017 RIGHT-OF-WAY OPENING AND RESTORATION RULES. A COPY OF THESE DOCUMENTS SHALL BE ON SITE DURING CONSTRUCTION.
2. A COPY OF THE APPROVED PLAN MUST BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
3. ERRORS AND OMISSIONS ON THE PERMITTED PLANS MUST BE CORRECTED BY THE ENGINEER AND APPROVED BY THE CITY OF SEATTLE.
4. ALL PERMITS REQUIRED FOR WORK WITHIN THE PUBLIC RIGHT OF WAY MUST BE OBTAINED PRIOR TO THE START OF CONSTRUCTION.
5. PRIOR TO THE START OF CONSTRUCTION WITHIN THE RIGHT OF WAY, THE PERMITTEE SHALL SCHEDULE AND ATTEND A PRECONSTRUCTION MEETING WITH THE CITY OF SEATTLE DEPARTMENT OF TRANSPORTATION.
6. PERMITTEE SHALL CONTACT SEATTLE DEPARTMENT OF TRANSPORTATION, STREET USE INSPECTOR A MINIMUM OF 2 BUSINESS DAYS PRIOR TO NEEDING AN INSPECTION.
7. ALL DAMAGE TO CITY INFRASTRUCTURE CAUSED BY THE CONSTRUCTION SHALL BE IMMEDIATELY REPORTED AND REPAIRED AS REQUIRED BY THE SEATTLE DEPARTMENT OF TRANSPORTATION. TO REPORT DAMAGE TO SPU INFRASTRUCTURE, INCLUDING ANY SEWAGE RELEASE OR BLOCKAGE, CALL 206-386-1800.
8. THE APPROVED PLANS SHALL SHOW THE APPROXIMATE AREA OF PAVEMENT RESTORATION BASED ON THE DEPTH OF UTILITY CUTS AND/OR THE AREA OF CURB AND/OR PAVEMENT TO BE REMOVED AND REPLACED. THE ACTUAL LIMITS OF THE PAVEMENT RESTORATION SHALL BE PER THE DIRECTOR'S RULE 01-2017, RIGHT OF-WAY OPENING AND RESTORATION RULE AND WILL BE DETERMINED IN THE FIELD BY THE SEATTLE DEPARTMENT OF TRANSPORTATION STREET USE INSPECTOR PRIOR TO THE PAVEMENT RESTORATION. FOR SPU WATER SERVICES, APPLICANT MUST SHOW THE PAVEMENT RESTORATION LIMITS FOR THE PROPOSED AND THE EXISTING WATER SERVICES TO BE RETIRED, INCLUDING SERVICES THAT ARE OUTSIDE THE PROJECT AREA, BUT SERVE THE PARCEL.
9. DATUM: NAVD88 AND NAD 83/91.
10. SURVEYING AND STAKING OF ALL IMPROVEMENTS IN THE PUBLIC RIGHT OF WAY SHALL BE COMPLETED PRIOR TO CONSTRUCTION. PERMITTEE TO STAKE THE CURB AT THE CENTERLINE OF DRAINAGE GRATES PER STANDARD PLAN 260A. SURVEY GRADE SHEETS MUST BE SUBMITTED AND APPROVED BY THE SEATTLE DEPARTMENT OF TRANSPORTATION AT LEAST 2 BUSINESS DAYS PRIOR TO CONSTRUCTION.
11. IF AN EXISTING CURB IS TO BE REMOVED AND REPLACED IN THE SAME LOCATION THE PERMITTEE SHALL PROVIDE THE STREET USE INSPECTOR A PLAN WITH EXISTING FLOW LINE AND TOP OF CURB ELEVATIONS IDENTIFIED. PERMITTEE TO STAKE THE LOCATION OF THE EXISTING CURB PRIOR TO DEMOLITION.
12. THE PERMITTEE MUST BE RESPONSIBLE FOR REFERENCING AND REPLACING ALL SURVEY MONUMENTS THAT MAY BE DISTURBED, DESTROYED OR REMOVED BY THE PROJECT AND 2 WORKING DAYS, PRIOR TO THE WORK, MUST FILE AN APPLICATION FOR PERMIT TO REMOVE OR DESTROY A SURVEY MONUMENT WITH THE WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES, PURSUANT TO WAC 332-120. THE PERMITTEE MUST PROVIDE THE ENGINEER AND SPU LAND SURVEY WITH A COPY OF THE APPROVED PERMIT AND COMPLETION REPORT. SEE STANDARD SPECIFICATION 1-07.28 ITEM 17.
13. THE PERMITTEE SHALL SUBMIT ALL APPLICABLE DOCUMENTS REQUIRED UNDER SECTION 1-05.3 OF THE STANDARD SPECIFICATIONS PRIOR TO CONSTRUCTION. A MATERIAL SOURCE FORM FOR ALL MATERIALS TO BE PLACED IN THE RIGHT OF WAY AND MIX DESIGNS FOR ALL ASPHALT, CONCRETE AND AGGREGATES TO BE PLACED IN THE RIGHT OF WAY MUST BE SUBMITTED TO THE SEATTLE DEPARTMENT OF TRANSPORTATION FOR REVIEW AND APPROVAL PRIOR TO BEGINNING CONSTRUCTION. A REVISED MATERIAL SOURCE FORM AND MIX DESIGNS MUST BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF ANY SUBSTITUTE MATERIALS.
14. THE PERMITTEE SHALL NOTIFY THE SEATTLE FIRE DEPARTMENT DISPATCHER (206-386-1495) AT LEAST TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL WATER SERVICE INTERRUPTIONS, HYDRANT SHUTOFFS, AND STREET CLOSURES OR OTHER ACCESS BLOCKAGE. THE PERMITTEE SHALL ALSO NOTIFY THE DISPATCHER OF ALL NEW, RELOCATED, OR ELIMINATED HYDRANTS RESULTING FROM THIS WORK.
15. THE PERMITTEE SHALL LOCATE AND PROTECT ALL CASTINGS AND UTILITIES DURING CONSTRUCTION.
16. THE PERMITTEE SHALL CONTACT THE UNDERGROUND UTILITIES LOCATOR SERVICE (811) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
17. IT IS THE SOLE RESPONSIBILITY OF THE PERMITTEE TO VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.
18. THE PERMITTEE SHALL ADJUST ALL EXISTING MAINTENANCE HOLE RIMS, DRAINAGE STRUCTURE LIDS, VALVE BOXES, AND UTILITY ACCESS STRUCTURES TO FINISH GRADE WITHIN AREAS AFFECTED BY THE PROPOSED IMPROVEMENTS.
19. THE PERMITTEE SHALL FOLLOW SPU CORE TAP PROCEDURES FOR ALL NEW CONNECTIONS TO EXISTING SEWER OR DRAINAGE MAINS OR STRUCTURES. CONTRACTORS ARE NOT ALLOWED TO CORE INTO MAINS OR STRUCTURES WITHOUT PRIOR APPROVAL FROM SPU DWW. TO SCHEDULE CORE CUT CONTACT SPU-DWW AT 206-615-0511 A MINIMUM OF 2 BUSINESS DAYS IN ADVANCE.
20. ALL UTILITY SERVICE CONNECTIONS SHOWN ON THIS PLAN REQUIRE SEPARATE PERMITS.
21. THE PERMITTEE SHALL PROVIDE FOR ALL TESTING AS REQUIRED BY THE STREET USE INSPECTOR.
22. INSPECTION AND ACCEPTANCE OF ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL BE DONE BY REPRESENTATIVES OF THE CITY OF SEATTLE. IT SHALL BE THE PERMITTEE'S RESPONSIBILITY TO COORDINATE AND SCHEDULE APPROPRIATE INSPECTIONS ALLOWING FOR PROPER ADVANCE NOTICE. THE SEATTLE DEPARTMENT OF TRANSPORTATION STREET USE INSPECTOR MAY REQUIRE REMOVAL AND RECONSTRUCTION OF ANY ITEMS PLACED IN THE RIGHT OF WAY THAT DO NOT MEET CITY STANDARDS OR THAT WERE CONSTRUCTED WITHOUT APPROPRIATE INSPECTIONS.
23. THE PERMITTEE SHALL PROVIDE A PLAN FOR STORMWATER AND EROSION CONTROL AND INSTALL, MAINTAIN AND REMOVE TEMPORARY FACILITIES PER SECTION 8-01. AS CONSTRUCTION PROGRESSES AND CONDITIONS DICTATE, ADDITIONAL CONTROL FACILITIES MAY BE REQUIRED. DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITTEE TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY THE PERMITTEE'S ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES THAT MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES.
24. ALL DISTURBED SOILS MUST BE AMENDED PER STANDARD PLAN 142 AND SECTION 8-02 OF THE STANDARD SPECIFICATIONS UNLESS WITHIN ONE FOOT OF A CURB OR SIDEWALK, THREE FEET OF A UTILITY STRUCTURE (E.G. WATER METER, UTILITY POLE, HAND HOLE, ETC.), OR THE DRIPLINE OF AN EXISTING TREE.
25. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CITY OF SEATTLE TRAFFIC CONTROL MANUAL FOR IN-STREET WORK. AN APPROVED TRAFFIC CONTROL PLAN WILL BE REQUIRED FOR ALL ARTERIAL STREETS, HIGH IMPACT AREAS AND CONSTRUCTION HUBS PRIOR TO BEGINNING CONSTRUCTION.
26. PERMITTEE SHALL NOTIFY KING COUNTY METRO AT 206-477-1140 FOURTEEN DAYS IN ADVANCE OF ANY IMPACT TO TRANSIT OPERATIONS. CALL 206-477-1150 FOR ANY COORDINATION RELATED TO KING COUNTRY METRO TROLLEY (INCLUDING SLU AND FIRST HILL STREET CAR). CONTACT KING COUNTY METRO TWO MONTHS PRIOR FOR ANY TROLLEY DE-ENERGIZING REQUESTS.
27. COORDINATE PARKING/LOADING SIGN(S) AND PAY STATION REMOVAL / RELOCATION AND INSTALLATION WITH SEATTLE DEPARTMENT OF TRANSPORTATION CURB SPACE MANAGEMENT AT 206-684-5370 WITH AT LEAST 10 BUSINESS DAYS' NOTICE. SIGNS AND POSTS SHALL ONLY BE REMOVED BY SDOT. SIGN POSTS ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD PLANS 616, 620, 621A, 621B, 625, & 626.
28. ALL STREET NAME SIGNS MUST BE INSTALLED BY SEATTLE DEPARTMENT OF TRANSPORTATION AT THE PERMITTEE'S EXPENSE.
29. ALL WORK PERFORMED BY SEATTLE CITY LIGHT, SEATTLE PUBLIC UTILITIES, AND OTHER UTILITIES TO INSTALL, REPAIR, REMOVE OR RELOCATE UTILITIES SHALL BE DONE AT THE PERMITTEE'S EXPENSE.
30. PERMITTEE MUST CONTACT THE SEATTLE DEPARTMENT OF PARKS AND RECREATION TO APPLY FOR A SEPARATE PERMIT IF WORKING WITHIN A DESIGNATED PARK BOULEVARD.
31. CARE SHALL BE EXERCISED WHEN EXCAVATING OR REMOVING PAVEMENT NEAR EXISTING CHARGED WATER MAINS. CAST IRON WATER MAINS ARE KNOWN TO BE SENSITIVE TO EXCESSIVE VIBRATION. COORDINATE PROTECTION METHODS WITH SPU.
32. CONTACT SDOT CURB SPACE TEAM 206-684-5370 WITH AT LEAST 10 BUSINESS DAYS' IN ADVANCE FOR REMOVING THE EXISTING NO PARKING SIGNS AND METAL POSTS. THE SIGNS AND POSTS CAN ONLY BE REMOVED BY SDOT CREW.
33. ALL STREET RESTORATION SHALL BE PER THE CITY OF SEATTLE RIGHT-OF-WAY OPENING AND RESTORATION RULE (ROWORR).

CITY OF SEATTLE STREET LIGHTING GENERAL NOTES:

1. ALL DISCONNECTIONS: TEMPORARY OR FINAL SERVICE CONNECTIONS WILL BE MADE BY SEATTLE CITY LIGHT (SCL) AT PROJECT'S EXPENSE. COORDINATE ALL ENERGIZING AND DE-ENERGIZING OF STREET LIGHTING SERVICE WITH SCL ELECTRICAL SERVICE REPRESENTATIVE AND STREETLIGHT ENGINEER FIFTEEN (15) WORKING DAYS IN ADVANCE. ADDITIONAL TIME MAY BE NEEDED FOR CREW SCHEDULING AND MOBILIZATION.
2. CONTRACTOR MUST MAKE PRIOR COORDINATION FOR FLOOD OR STREETLIGHT REMOVAL. CONTRACTOR MUST MAKE PRIOR DELIVERY COORDINATION FOR SALVAGED STREETLIGHT-RELATED MATERIALS TO SEATTLE CITY LIGHT SALVAGE YARD AT 4TH AVE S & S SPOKANE ST, 98134. CONTACT SALVAGE COORDINATOR AT 206-386-1765. NO ARTERIAL STREETLIGHT MAY BE DISABLED WITHOUT PRIOR APPROVAL FROM SEATTLE DEPARTMENT OF TRANSPORTATION, (SDOT).
3. EXISTING STREET LIGHTING SYSTEM SHALL BE MAINTAINED DURING CONSTRUCTION.
4. WORK MUST BE SCHEDULED SUCH THAT NO TWO (2) ADJACENT OR OPPOSITE STREETLIGHTS ARE DISABLED AT ANY ONE TIME.
5. ANY EXCAVATION IN PROXIMITY TO AN EXISTING STREETLIGHT POLE MUST BE DONE WITHOUT UNDERMINING ITS STABILITY. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY STABILIZING SUPPORT.
6. INSTALLATION OF UNDERGROUND STREETLIGHT SYSTEMS, AND STREETLIGHT SYSTEM GROUNDING AND BONDING MUST BE PER SEATTLE CITY LIGHT (SCL) CONSTRUCTION STANDARD 1714.50.
7. ALL WIRING, INCLUDING STREET LIGHTING, PEDESTRIAN LIGHTING AND FESTOON LIGHTING CIRCUITS MUST BE CLEARLY LABELED PER SEATTLE CITY LIGHT (SCL) CONSTRUCTION STANDARD 1714.10.
8. EACH LUMINAIRE MUST BE FUSED PER (SCL) CONSTRUCTION STANDARD 1730.00.
9. STREETLIGHT HANDHOLE AND CONDUIT REQUIREMENTS MUST CONFORM TO SCL CONSTRUCTION STANDARD 1716.07.
10. PULL TAPE MUST BE INSTALLED THROUGH VACANT CONDUIT CAPPED PER (SCL) CONSTRUCTION STANDARD U2-11.40/NDK-40.
11. MAINTAIN MINIMUM HORIZONTAL & VERTICAL CLEARANCES BETWEEN SCL UNDERGROUND STRUCTURES AND VARIOUS OTHER UTILITY STRUCTURES PER SCL CONSTRUCTION STANDARD 0214.00.
12. FOR STREET LIGHTING INSPECTIONS CONTACT SCL ELECTRICAL REVIEWER TEN (10) WORKING DAYS IN ADVANCE.
13. CONTRACTOR MUST CALL FOR AN ELECTRICAL REVIEWER INSPECTION OF THE STREET LIGHTING SYSTEM AT VARIOUS STAGES OF INSTALLATION/CONSTRUCTION OR AS INSTRUCTED BY THE SCL INSPECTOR.
14. CONTRACTOR MUST PROVIDE AN OPERATOR AND MAN LIFT TRUCK FOR USE DURING INSPECTION OF INSTALLED STREETLIGHT FACILITIES.
15. CONTRACTOR MUST ASSIST THE INSPECTOR DURING INSPECTIONS, COMMISSIONING, AND FINAL CONNECTION PHASES OF THE PROJECT AS INSTRUCTED BY THE INSPECTOR. SUCH ASSISTANCE WILL INCLUDE, BUT NOT BE LIMITED TO OPENING HANDHOLES, MANHOLES AND VARIOUS ACCESS COVERS, DISCONNECTING AND RECONNECTING FUSE HOLDERS AND MECHANICAL SPLICE CONNECTIONS, VERIFYING CONDUIT RUNS, ETC.
16. PRIOR TO REQUESTING FINAL STREETLIGHT SERVICE CONNECTION, CONTRACTOR MUST CORRECT ALL PUNCH LIST ITEMS AND CALL FOR A RE-INSPECTION WHERE REQUIRED BY THE INSPECTOR. CONTRACTOR MUST PREPARE A SIGNED AS-BUILT AND WIRING DIAGRAM WHICH INCLUDES WHICH DUCT IS USED IN EACH DUCT BANK.
17. CONTRACTOR SHALL CONTACT SEATTLE CITY LIGHT TO ARRANGE A SAFETY STANDBY WHEN WORKING WITHIN 5 FEET OF SCL'S ELECTRICAL FACILITIES.
18. CONTRACTOR SHALL NOTIFY SCL'S TOMMY EDWARDS AT 206-730-1070 (TOMMY.EDWARDS@SEATTLE.GOVE) FOUR WEEKS PRIOR TO THE START OF THIS PROJECT.

STREET TREE TABLE

NO	STATION/OFFSET	IDENTIFICATION
C1	23+33.28 35.12' RT	GLEDITSIA TRICANTHOS SUNBURST
C2	23+64.75 35.85' RT	GLEDITSIA TRICANTHOS SUNBURST
C3	23+96.09 34.97' RT	GLEDITSIA TRICANTHOS SUNBURST
C4	24+27.29 35.11' RT	GLEDITSIA TRICANTHOS SUNBURST
C5	24+57.68 35.13' RT	GLEDITSIA TRICANTHOS SUNBURST
C6	24+87.94 35.00' RT	GLEDITSIA TRICANTHOS SUNBURST
C7	25+17.93 35.00' RT	GLEDITSIA TRICANTHOS SUNBURST
C8	25+10.20 45.00' RT	CORNUS KOUSA CHINENSIS
C9	25+20.94 46.36' RT	CORNUS KOUSA CHINENSIS

ROW TREE PROTECTION, PRUNING, AND FUTURE TREE PLANTING UNDER SDOT URBAN FORESTRY PERMIT SDOTTREE0004987.

WHERE THE PERMITTEE HAS AN ACTION OR RESPONSIBILITY AS REQUIRED BY THE CITY OF SEATTLE GENERAL NOTES, THE PERMITTEE'S CONTRACTOR SHALL COMPLETE THOSE ACTIONS OR RESPONSIBILITIES ON BEHALF OF THE PERMITTEE.

DATE	MARK	NATURE REVISIONS	MADE	CHK'D	REV'D

KyleA
Feb 22, 2024 - 6:13pm Z:\2000001-2009999\2000430 Salmon Bay\CADD\Design\SIP-East\01 SIP-SBSC-COVER.dwg

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Seattle Department of Transportation

INSITE SALMON BAY STORAGE – SDCI PROJECT NUMBER: 6826187-CN

2707 W COMMODORE WAY
CURB, SIDEWALK & LANDSCAPE IMPROVEMENTS
NOTES

SDOT PROJECT NO. SUSIP0000335
VAULT PLAN NO. 792-809
VAULT SERIAL NO. 39383

100% Complete Street Improvement Plan

CITY OF SEATTLE DRAINAGE CB AND INLET NOTES

UNLESS OTHERWISE NOTED

1. CATCH BASIN CONNECTIONS AND INLET CONNECTIONS MUST BE 8" DIAMETER. PIPE MUST BE CEMENT MORTAR LINED DUCTILE IRON CLASS 50 (MIN) PER SPECIFICATION 9-05.3. FITTINGS MUST BE CEMENT MORTAR LINED DUCTILE IRON. JOINTS MUST BE RUBBER GASKET, PUSH-ON OR MECHANICAL.
2. BEDDING MUST BE CLASS D WITH SELECT NATIVE MATERIAL.
3. CATCH BASIN CONNECTIONS MUST BE PLACED AT A MINIMUM SLOPE OF 2% AND A MAXIMUM SLOPE OF 100% PER STANDARD PLAN NO. 261 AND SPECIFICATION 7-08.3(4).
4. INLET CONNECTIONS MUST BE PLACED AT A MINIMUM SLOPE OF 5% AND A MAXIMUM SLOPE OF 50% PER SPECIFICATION 7-08.3(5).
5. CATCH BASINS AND INLETS MUST BE LOCATED PER STANDARD PLAN NO. 260A AND 260B.
6. TELEVISION INSPECTION OF CATCH BASIN CONNECTIONS MUST BE PER SPECIFICATION 7-17.3(3)G.
7. CONTRACTORS ARE NOT ALLOWED TO CORE INTO MAINS OR STRUCTURES WITHOUT PRIOR APPROVAL FROM SPU. TO SCHEDULE CORE TAPS, CONTACT SPU AT 206-615-0511 A MINIMUM OF 2 BUSINESS DAYS IN ADVANCE. SPU SHALL BE ON SITE PRIOR TO THE START OF CONTRACTOR PERFORMED CORE TAP. CONTRACTORS PERFORMING CORE TAPS MUST PROVIDE THE COUPON OF REMOVED MATERIAL TO SPU.

CITY OF SEATTLE WATER SERVICE NOTES

1. APPLICATION FOR A NEW METERED WATER SERVICE AND PAYMENT OF ALL FEES IS REQUIRED BEFORE SERVICE WILL BE AVAILABLE.
2. APPLICANT WILL NEED A WATER AVAILABILITY CERTIFICATE (WAC) AND LEGAL DESCRIPTION OF PROPERTY WHEN SUBMITTING THE APPLICATION. TO OBTAIN A WAC, PLEASE CONTACT THE DEVELOPMENT SERVICES OFFICE AT (206) 684-3333 OR SPUWaterAvailability@seattle.gov.
3. ALL WATER SERVICES SHALL BE LOCATED IN THE PUBLIC RIGHT OF WAY AND WITHIN THE FRONTAGE OF THE PARCEL BEING SERVED.
4. WATER SERVICES SERVING PARCELS WITHOUT FRONTAGE TO THE PUBLIC RIGHT OF WAY (SUCH AS UNIT LOT SUBDIVISIONS) OR LANDLOCKED PARCELS SHALL BE SERVED BY A PRIVATE WATER SERVICE EXTENDING FROM THE WATER METER TO THE PARCEL BEING SERVED. THE WATER SERVICE SHALL BE INSTALLED IN A DEDICATED EASEMENT. THE EASEMENT SHALL BE OBTAINED BY THE DEVELOPER, RECORDED, AND A COPY SHALL BE PROVIDED TO SEATTLE PUBLIC UTILITIES (SPU) AT THE TIME OF APPLICATION SUBMITTAL.
5. ALL WATER SERVICES PIPING ON PROPERTY MUST BE INSPECTED PRIOR TO BACKFILLING TRENCH. CONTACT (206) 684-5800 TO REQUEST AN INSPECTION.
6. CUSTOMERS ARE REQUIRED TO INSTALL AN APPROVED AIR GAP OR REDUCED-PRESSURE BACKFLOW ASSEMBLY (RPBA/RPDA) ON ALL WATER SERVICE CONNECTIONS POSING A HIGH HEALTH CROSS-CONNECTION HAZARD (PURSUANT TO WAC 246-290-490). BACKFLOW PREVENTION IS ALSO REQUIRED ON WATER SERVICE CONNECTIONS SUCH AS FIRE SERVICES, IRRIGATION SERVICES, BUILDINGS EXCEEDING THREE STORIES OR 30 FT. IN HEIGHT ABOVE THE METER (MEASURED TO THE HIGHEST WATER FIXTURE), AND MAY BE REQUIRED FOR OTHER WATER SERVICES. SPU AND KING COUNTY HEALTH DEPARTMENT (KCHD) ARE THE ADMINISTRATIVE AUTHORITIES ENGAGED IN A JOINT PROGRAM IDENTIFYING ACTUAL AND POTENTIAL CROSS-CONNECTIONS BETWEEN THE PUBLIC WATER SUPPLY AND POSSIBLE SOURCES OF CONTAMINATION. FOR ANSWERS TO SPECIFIC CROSS-CONNECTION CONTROL QUESTIONS OR TO REQUEST AN INSPECTION, PLEASE CALL (206) 684-3536.

CITY OF SEATTLE SIDE SEWER NOTES

(FOR USE WITH MAINLINE CONVEYANCE AND DETENTION NOTES)

UNLESS OTHERWISE NOTED

1. ALL WORK MUST CONFORM TO THE SEATTLE DEPARTMENT OF CONSTRUCTION AND INSPECTIONS (SDCI) DIRECTOR'S RULE 4-2011, REQUIREMENTS FOR DESIGN AND CONSTRUCTION OF SIDE SEWERS.
2. THE PERMITTEE MUST MAINTAIN DRAINAGE AND SEWER SERVICE TO PRIVATE PROPERTY DURING CONSTRUCTION.
3. RELAY OR REPAIR OF SERVICE DRAINS/SIDE SEWERS NOT SHOWN FOR CONSTRUCTION ON THE APPROVED PLAN MUST BE UNDER SEPARATE PERMIT FROM SDCI.
4. WHEN SHOWN ON THE APPROVED PLAN, RELAY EXISTING SERVICE DRAINS/SIDE SEWERS TO CLEAR OVER OR UNDER THE NEW UTILITY AND RECONNECT WITH SHIELDED FLEXIBLE REPAIR COUPLINGS PER SPECIFICATIONS 7-17.3(2)E AND 9-05.18 AND AS APPROVED BY A REPRESENTATIVE OF THE CITY OF SEATTLE.
5. SERVICE DRAIN/SIDE SEWER PIPE MUST BE OF A MATERIAL APPROVED BY A REPRESENTATIVE OF THE CITY OF SEATTLE, FROM THE FOLLOWING, IN ORDER OF PRECEDENCE:
   A. DIP WHEN MINIMUM CLEARANCES REQUIRED IN SPECIFICATION 1-07.17(2) ARE NOT MET. DIP MUST BE CEMENT MORTAR LINED DUCTILE IRON PIPE PER SPECIFICATION 9-05.3. JOINTS MUST BE RUBBER GASKET, PUSH-ON OR MECHANICAL. BEDDING MUST BE CLASS D PER SPECIFICATION 7-17.3(1)D.
   B. MATCH EXISTING PIPE MATERIAL. BEDDING MUST BE CLASS B PER SPECIFICATION 7-17.3(1) FOR EACH PIPE MATERIAL.
   C. PVC PIPE AND FITTINGS MUST BE PER ASTM D 3034, SDR35 (MIN), WITH RUBBER GASKET JOINTS OR SCHEDULE 40 PER ASTM D1785 WITH SOLVENT WELDED JOINTS. BEDDING MUST BE CLASS B PER SPECIFICATION 7-17.3(1)B.
6. SERVICE DRAINS/SIDE SEWERS MUST NOT BE BACKFILLED UNTIL THE PIPE HAS BEEN INSPECTED AND APPROVED AND THE SLOPE, LOCATION AND DEPTH IS RECORDED.
7. THE PERMITTEE IS RESPONSIBLE FOR AS-BUILT RECORD INFORMATION FOR ALL WORK ON SERVICE DRAINS/SIDE SEWERS.

GENERAL PSE NOTES

1. CONTACT MAPREQUEST@PSE.COM FOR UPDATED GAS MAPS OF AREA.
2. MAINTAIN A MINIMUM 1' VERTICAL SEPARATION WHEN CROSSING GAS MAINS OR SERVICES.
3. MAINTAIN A MINIMUM 3' HORIZONTAL SEPARATION WHEN RUNNING PARALLEL TO GAS MAINS OR SERVICES.
4. IF HP OR > 4" PIPE IS ENCOUNTERED, PLEASE CONTACT PSE PI INSPECTOR BEFORE WORKING NEAR HP OR > 4" GAS MAINS:

   DOWNTOWN SEATTLE:
   GLENN HUDEN | 206-396-4159 | GLENN.HUDEN@PSE.COM

   SOUTH SEATTLE:
   TROY PETERSON | 206-396-0730 | TROY.PETERSON@PSE.COM

   NORTH SEATTLE:
   MITCH BALZER | 253-377-9539 | MITCHELL.BALZER@PSE.COM
5. COORDINATE WITH PSE CUSTOMER CONSTRUCTION SERVICES AT 1-888-321-7779 AND A PSE PROJECT MANAGER FOR RELOCATION OF GAS MAINS AND SERVICES AS NEEDED.
6. LOCATE AND PROTECT ALL GAS FACILITIES IN THE FIELD

EXISTING LEGEND

SYMBOL LEGEND

SURVEY MONUMENT IN CASE
SURVEY REBAR/CAP, PIPE/CAP, IRON PIPE
TACK/LEAD, TACK PK NAIL, SPIKE
SURVEY BENCHMARK
CATCH BASIN: V-CB240A
CATCH BASIN: V-CB241
CATCH BASIN: V-CB242A
CLEAN-OUT: V-CO
MAINTENANCE HOLE: V-MH204A
MAINTENANCE HOLE: V-MH204B
MAINTENANCE HOLE: V-MH205A
CULVERT
HOSE BIB
HVAC
SSB INJECTION WELL
MW MONITOR WELL
BOLLARD
PILE
POST
SIGN
GATE VALVE
FIRE HYDRANT
EV ELECTRICAL VAULT
LP LIGHT POLE
POWER POLE WITH STREET LIGHT
YARD LIGHT
UP UTILITY POLE
GP GUY POLE
GUY ANCHOR
NATURAL GAS VALVE
POWER METER
W WATER MANHOLE
WM WATER METER
CONIFEROUS TREE
DECIDUOUS TREE

ABBREVIATIONS

AP	ANGLE POINT
ASPH	ASPHALT
BLDG	BUILDING
BLRD	BOLLARD
BM	BENCH MARK
BRKN	BROKEN
CALC	CALCULATION
CB	CATCH BASIN
℄	CENTER LINE
CLF	CHAIN LINK FENCE
CO	CLEAN OUT
CONC	CONCRETE
COR	CORNER
COS	CITY OF SEATTLE
CULV	CULVERT
CW	CONCRETE WALK
DBL	DOUBLE
DI	DUCTILE IRON PIPE
DWY	DRIVEWAY
E	EAST
EOC	END OF CURB
EV	ELECTRICAL VAULT
FC	FACE OF CURB
FND	FOUND
G	GAS
GP	GUY POLE
GV	GATE VALVE
HYD	HYDRANT
IE	INVERT ELEVATION
MB	MAILBOX
MIC	MONUMENT IN CASE
MON	MONUMENT
MW	MONITOR WELL
N	NORTH
NAVD	NORTH AMERICAN VERTICAL DATUM
NO	NUMBER
PL	PROPERTY LINE
PS	PIPE SEWER COMBINED
PSD	PIPE SEWER DRAIN
PSS	PIPE SEWER SANITARY
RET WALL	RETAINING WALL
RR	RAILROAD
S	SOUTH
SCL	SEATTLE CITY LIGHT
SD	SERVICE DRAIN
SW	SIDEWALK
TYP	TYPICAL
UP	UTILITY POLE
W	WEST
WCR	WALKWAY CURB RAMP
WM	WATER METER
WV	WATER VALVE

PROPOSED LEGEND

PROPERTY LINE
ROW LINE
BLDG OUTLINE
FLUSH CURB
6" CURB
EDGE OF PAVEMENT
EDGE OF SIDEWALK
SAWCUT
GRADE BREAK
SD STORM DRAIN PIPE
SS SANITARY SEWER PIPE
W WATER LINE
T COMMUNICATION CONDUIT
ELECTRICAL POWER DUCT BANK
UTILITY CAP
WATER GATE VALVE
WATER FITTING W/ THRUST BLOCK
WATER METER VAULT
SCL VAULT TYPE 712
COMMUNICATION "MEET ME" VAULT
ASPHALT CONCRETE FULL DEPTH PAVEMENT PER COS STD PLAN 402C, UNLESS OTHERWISE NOTED (2" HMA CL 1/2" OVER 7" HMA CL 1", 6"CSBC)
ASPHALT CONCRETE GRIND & OVERLAY (2" CL 1/2")
CEMENT CONCRETE SIDEWALK PER COS STD PLAN 420
VEHICULAR CONCRETE PER COS STD PLAN 402B

TC	TOP OF CURB
BC	BOTTOM OF CURB
EX	EXISTING

DATE	MARK	NATURE	MADE	CHK'D	REV'D
		REVISIONS			

Feb 22, 2024 - 6:13pm KyleA
Z:\2000001-2009999\2000430 Salmon Bay\CADD\Design\SIP-East\01 SIP-SBSE-COVER.dwg

JENIFER R. CLAPHAM STATE OF WASHINGTON 40799 REGISTERED PROFESSIONAL ENGINEER 2024-02-22

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1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com

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APPROVED FOR SDOT PERMITTING

ENGINEER/LA/SURVEYOR	SDOT PROJECT MANAGER
SPU/WATER ENGINEERING	SDOT SUPERVISOR
SPU/DRAINAGE	REVISED AS-BUILT

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS IN EFFECT ON THE DATE SHOWN ABOVE, AND SUPPLEMENTED BY SPECIAL PROVISIONS.

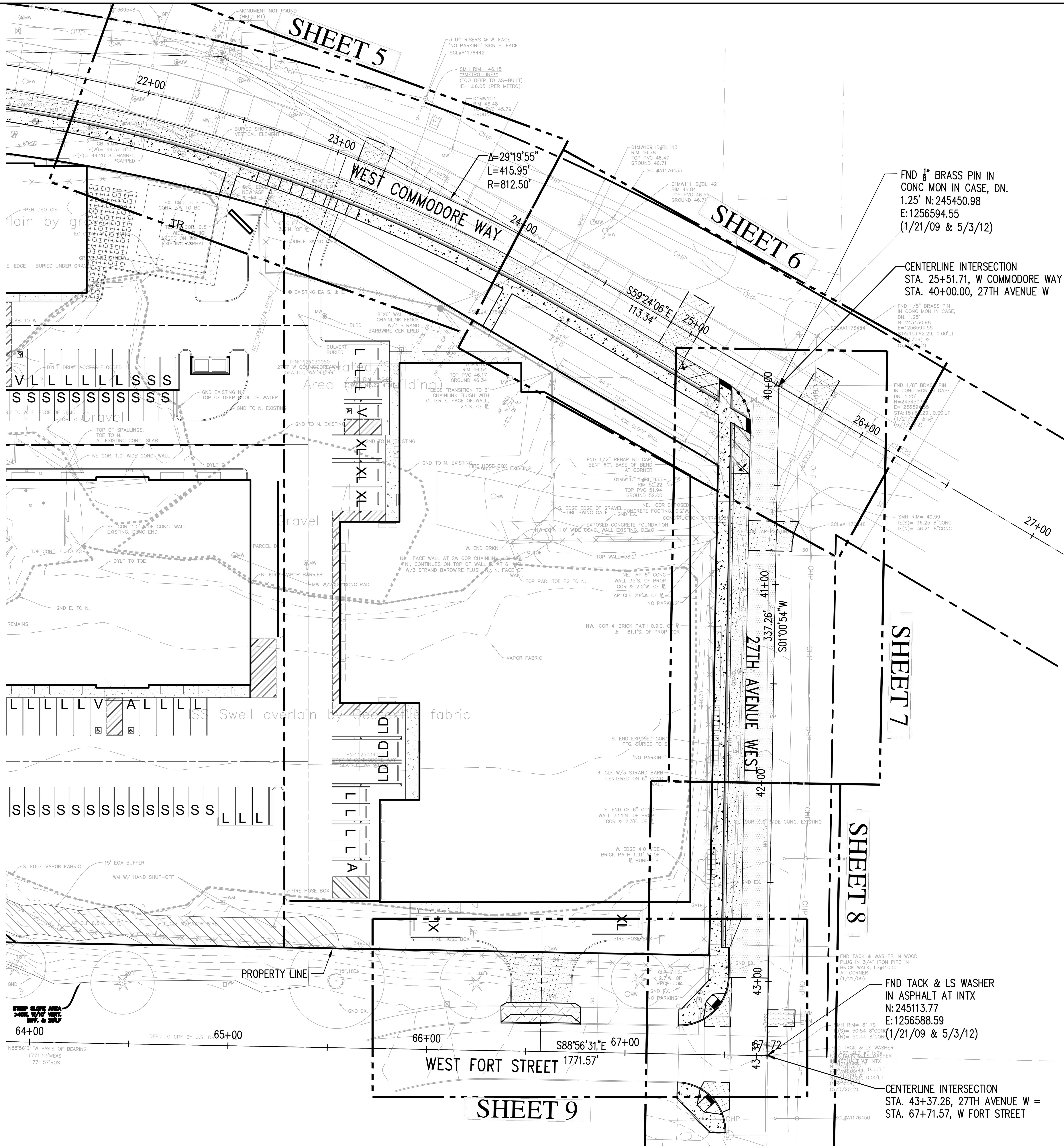
Seattle Department of Transportation

INSITE SALMON BAY STORAGE – SDCI PROJECT NUMBER: 6826187-CN

2707 W COMMODORE WAY
CURB, SIDEWALK & LANDSCAPE IMPROVEMENTS
NOTES, LEGEND, ABBREVIATIONS

SDOT PROJECT NO. SUSIP0000335
VAULT PLAN NO. 792-809
VAULT SERIAL NO. 39383

100% Complete Street Improvement Plan



INSITE SALMON BAY STORAGE – SDCI PROJECT NUMBER: 6826187-CN

MARK	DATE	NATURE	MADE	CHK'D	REV'D
		REVISIONS			

JENIFER R. CLAPHAM, STATE OF WASHINGTON, 45799, REGISTERED PROFESSIONAL ENGINEER, 2024-02-22

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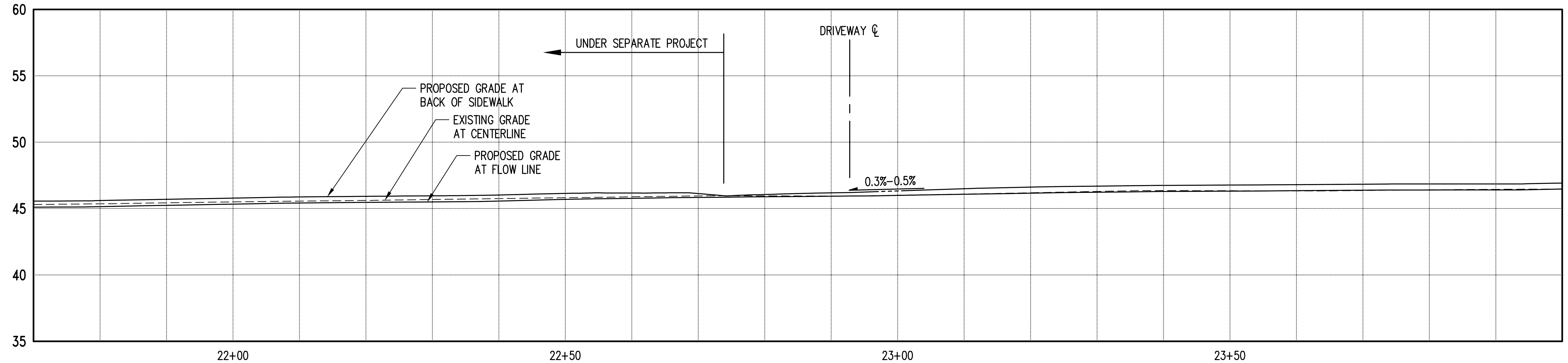
Seattle Department of Transportation

2707 W COMMODORE WAY
CURB, SIDEWALK & LANDSCAPE IMPROVEMENTS
KEY MAP

SDOT PROJECT NO. SUSIP0000335
VAULT PLAN NO. 792–809
VAULT SERIAL NO. 39383
SHEET 4 OF 26

Feb 22, 2024 – 6:13pm KyleA
Z:\2000001-2009999\2000430 Salmon Bay\CADD\Design\SIP-East\04 SIP-SBSE-KEY MAP.dwg



CONSTRUCTION NOTES:

1. REFER TO LANDSCAPE PLANS FOR TREE PROTECTION AND REMOVAL, PLANTING INFORMATION, AND SIDEWALK SCORING.
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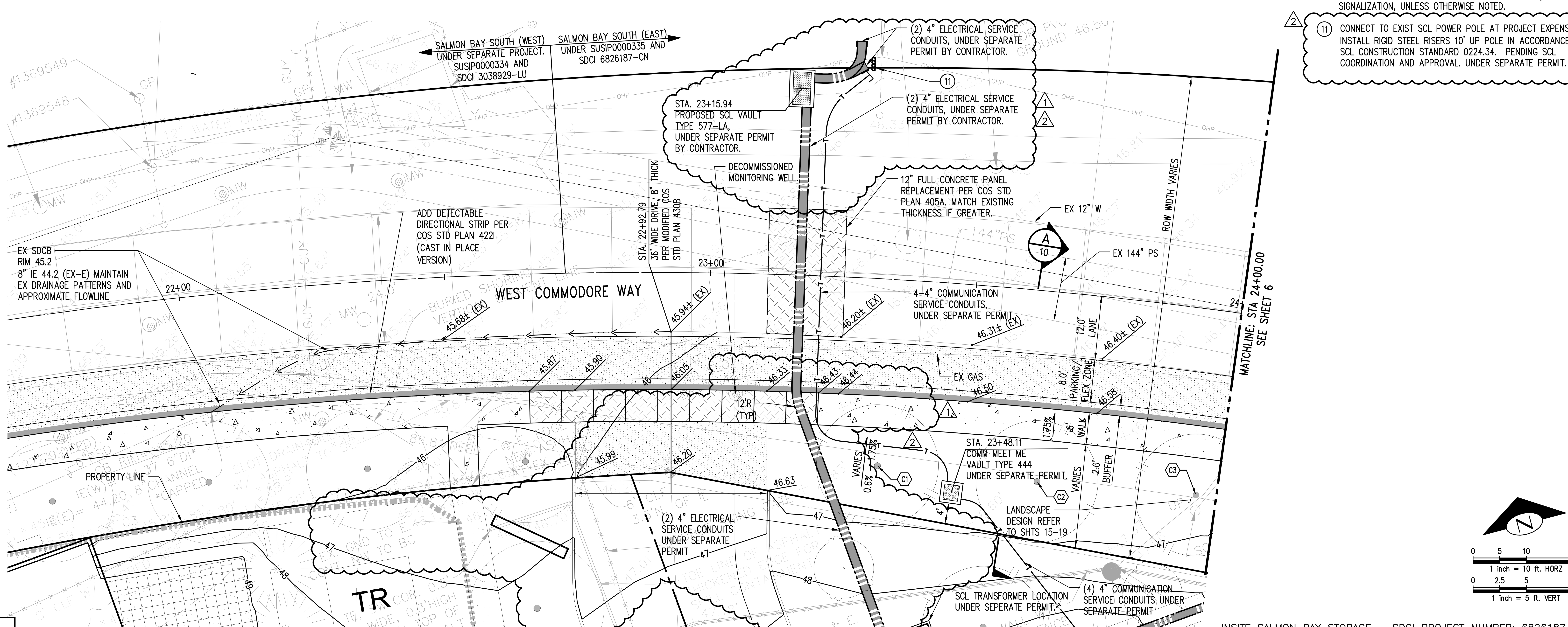

INSITE SALMON BAY STORAGE – SDCI PROJECT NUMBER: 6826187-CN

DATE	MARK	NATURE REVISIONS	MADE	CHK'D	REV'D
8/1/24	1	SCL REVISIONS			
10/29/24	2	SCL REVISIONS			

JENNIFER R. CLAPHAM, STATE OF WASHINGTON, 40799, REGISTERED PROFESSIONAL ENGINEER, 2024-10-29

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ENGINEER/LA/SURVEYOR	SDOT PROJECT MANAGER
SPU/WATER ENGINEERING	SDOT SUPERVISOR
SPU/DRAINAGE	REVISED AS-BUILT

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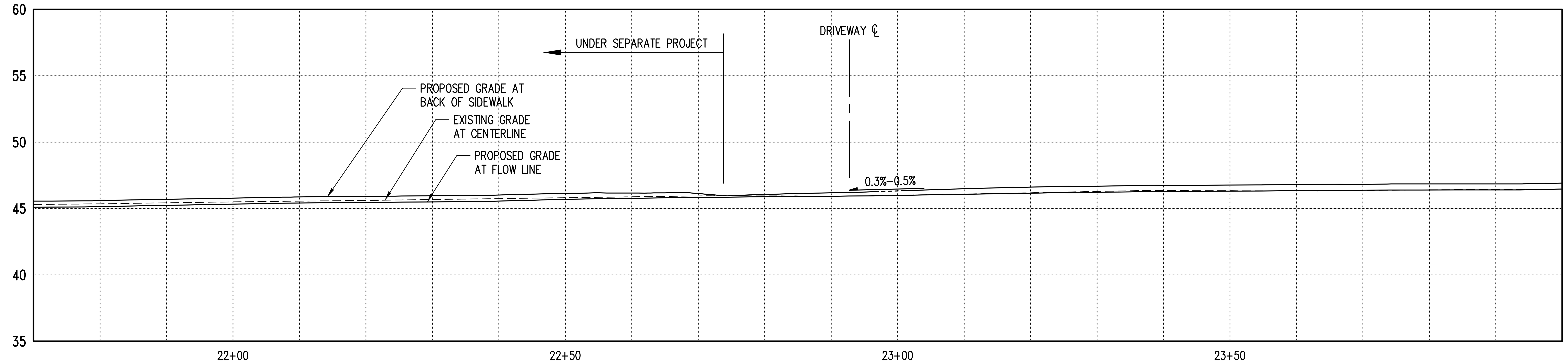
Seattle Department of Transportation

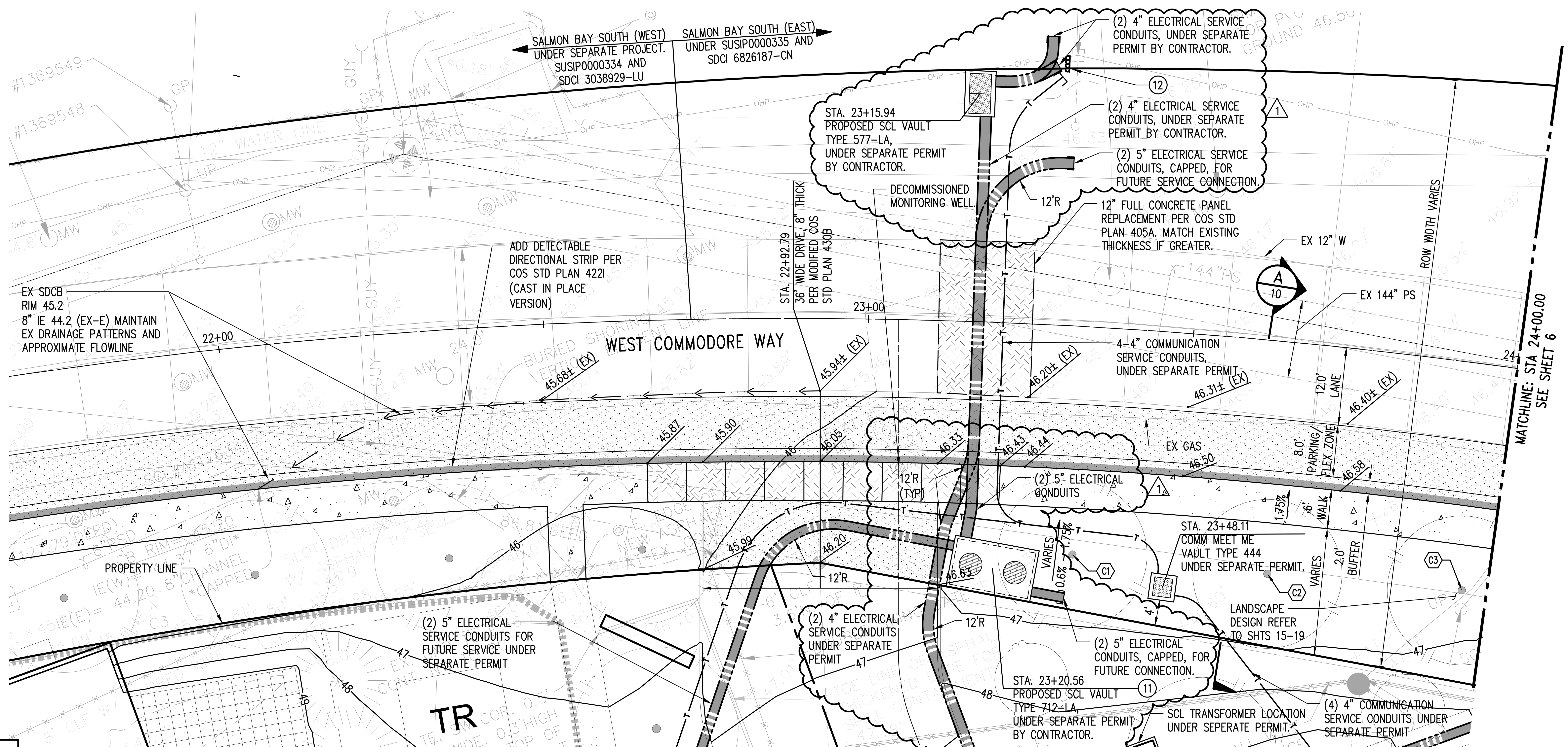
2707 W COMMODORE WAY
CURB, SIDEWALK & LANDSCAPE IMPROVEMENTS
W COMMODORE WAY PLAN AND PROFILE

SDOT PROJECT NO. SUSIP0000335
VAULT PLAN NO. 792-809
VAULT SERIAL NO. 39383
SHEET 5 OF 26

Oct 29, 2024 - 11:51am KyleA
\\kpff.com\Civil\2000001-2009999\2000430 Salmon Bay\CADD\Design\SIP-East\05 SIP-SESE-PLANS.dwg

100% Complete Street Improvement Plan





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(11) SET VAULT TO ALIGN SOUTHERN FACE WITH PROPERTY LINE.

(12) CONNECT TO EXIST SCL POWER POLE AT PROJECT EXPENSE. INSTALL RIGID STEEL RISERS 10' UP POLE IN ACCORDANCE WITH SCL CONSTRUCTION STANDARD 0224.34. PENDING SCL COORDINATION AND APPROVAL. UNDER SEPARATE PERMIT.

INSITE SALMON BAY STORAGE – SDCI PROJECT NUMBER: 6826187-CN

MARK	DATE	NATURE REVISIONS	MADE	CHK'D	REV'D
1	8/1/24	SCL REVISIONS			

JENIFER R. CLAPHAM, STATE OF WASHINGTON, 40799, REGISTERED PROFESSIONAL ENGINEER, 2024-08-01

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SPU/WATER ENGINEERING	SDOT SUPERVISOR
SPU/DRAINAGE	REVISED AS-BUILT

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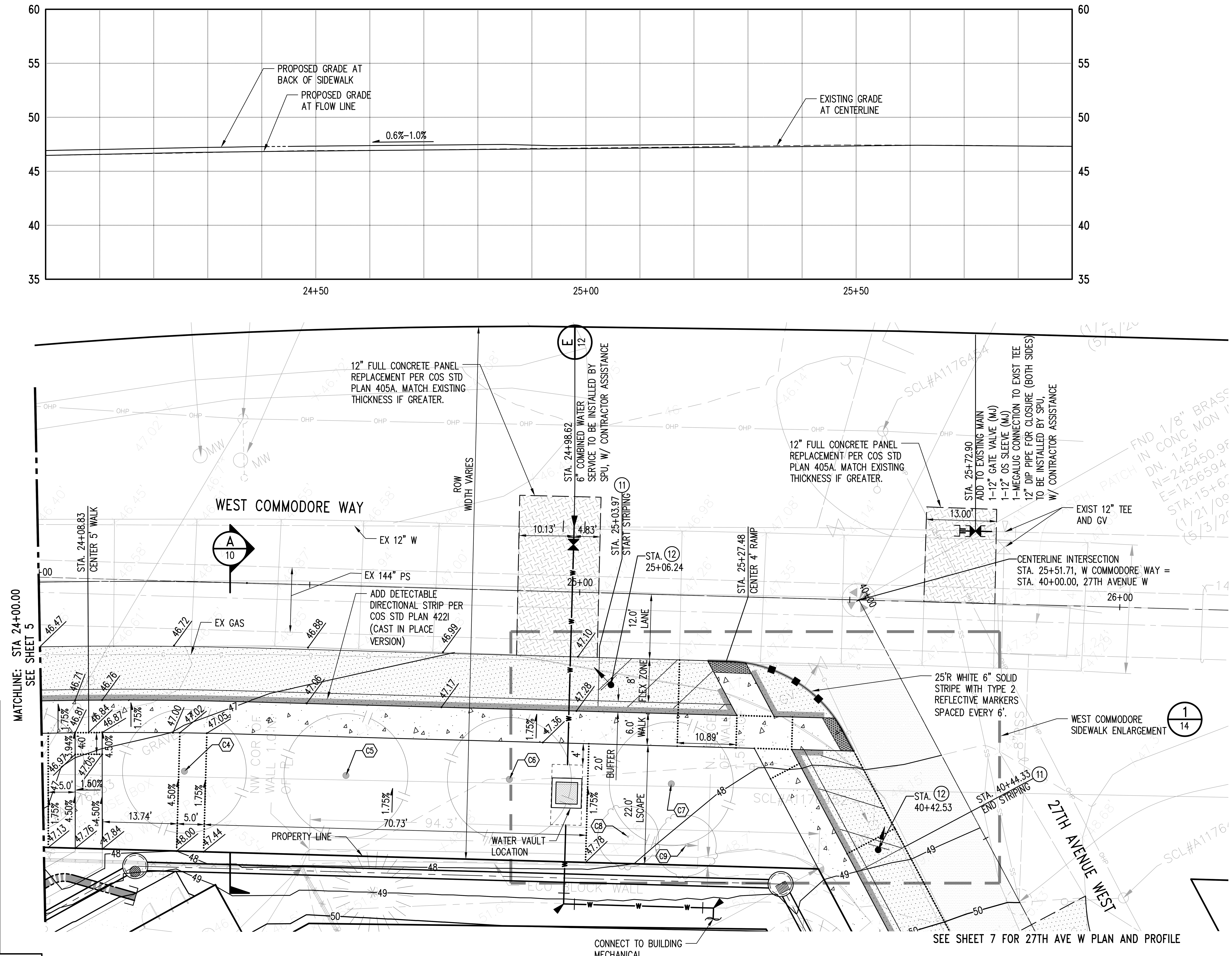
Seattle Department of Transportation

2707 W COMMODORE WAY
CURB, SIDEWALK & LANDSCAPE IMPROVEMENTS
W COMMODORE WAY PLAN AND PROFILE

SDOT PROJECT NO. SUSIP0000335
VAULT PLAN NO. 792–809
VAULT SERIAL NO. 39383

BrianB
Aug 01, 2024 – 3:53pm Z:\2000001–2009999\2000430 Salmon Bay\CADD\Design\SIP-East\05 SIP-SBSE-PLANS.dwg

100% Complete Street Improvement Plan



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(11) INSTALL STRIPING L-M/8WS PER COS STD PLAN 711.

(12) INSTALL R7-NPL ON TS-10 PER COS STD PLAN 621.

DATE	MARK	NATURE REVISIONS	MADE	CHK'D	REV'D

JENNIFER R. CLAPHAM, STATE OF WASHINGTON, 48799, REGISTERED PROFESSIONAL ENGINEER 2024-02-22

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ENGINEER/LA/SURVEYOR	SDOT PROJECT MANAGER
SPU/WATER ENGINEERING	SDOT SUPERVISOR
SPU/DRAINAGE	REVISED AS-BUILT

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Seattle Department of Transportation

INSITE SALMON BAY STORAGE – SDCI PROJECT NUMBER: 6826187-CN

2707 W COMMODORE WAY

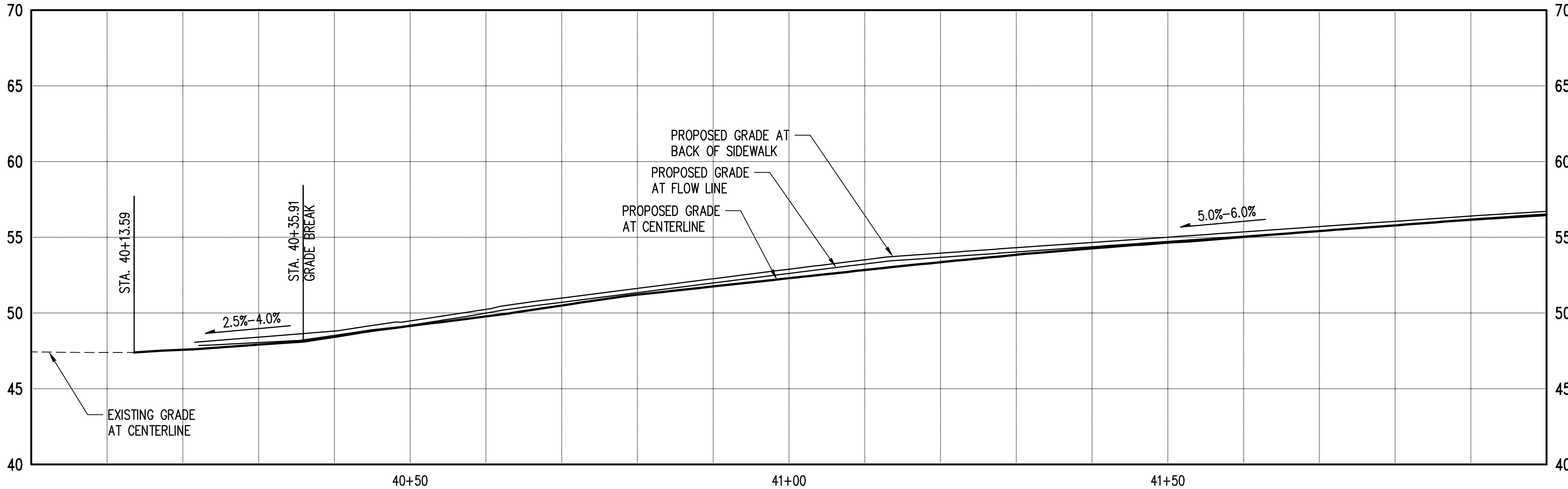
CURB, SIDEWALK & LANDSCAPE IMPROVEMENTS

W COMMODORE WAY PLAN AND PROFILE

SDOT PROJECT NO. SUSIP0000335
VAULT PLAN NO. 792-809
VAULT SERIAL NO. 39383
SHEET 6 OF 26

Feb 22, 2024 - 6:13pm KyleA Z:\2000001-2009999\2000430 Salmon Bay\CADD\Design\SIP-East\05 SIP-SBSE-PLANS.dwg

100% Complete Street Improvement Plan



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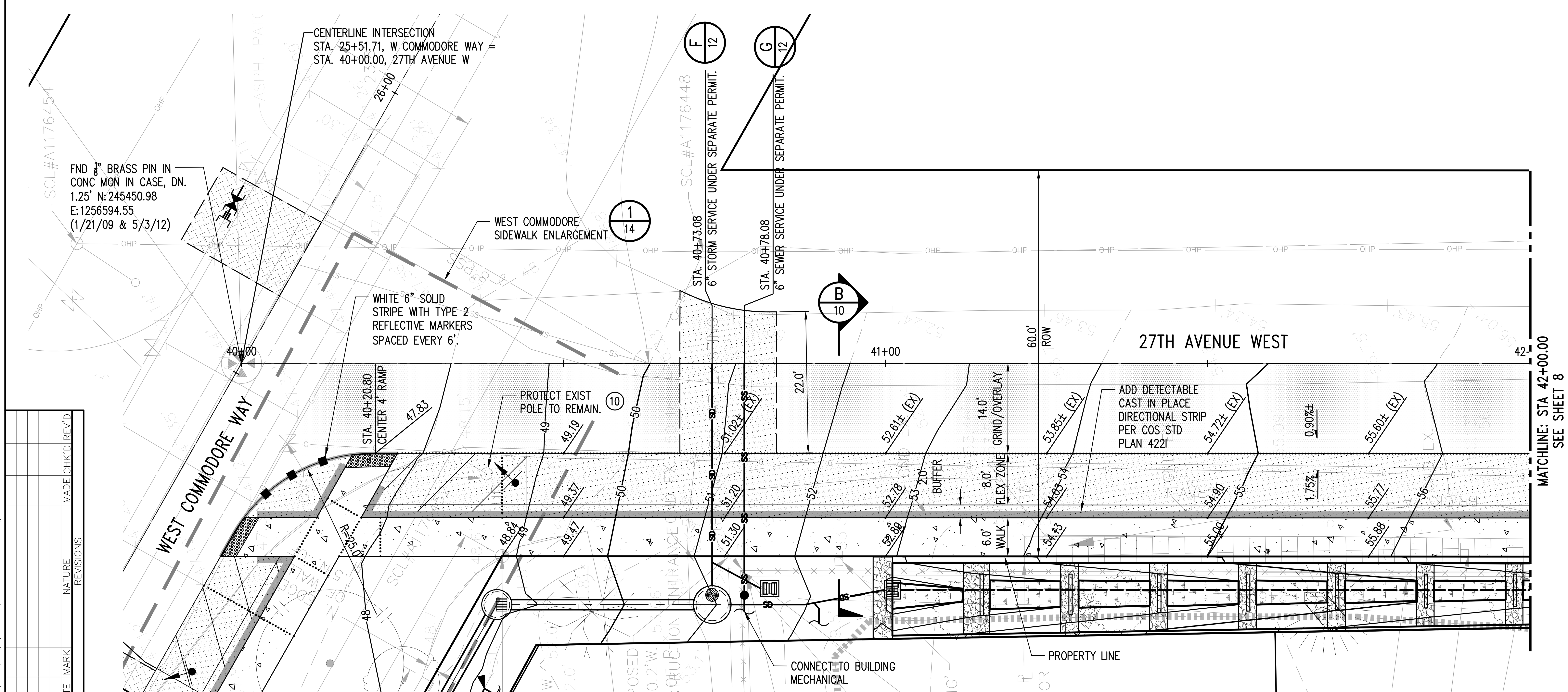

SEE SHEET 6 FOR WEST COMMODORE WAY PLAN AND PROFILE

DATE	MARK	REVISIONS	NATURE	MADE	CHK'D	REV'D

INSITE SALMON BAY STORAGE – SDCI PROJECT NUMBER: 6826187-CN

JENIFER R. CLAPHAM, STATE OF WASHINGTON, 49799, REGISTERED PROFESSIONAL ENGINEER, 2024-02-22

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ENGINEER/LA/SURVEYOR	SDOT PROJECT MANAGER
SPU/WATER ENGINEERING	SDOT SUPERVISOR
SPU/DRAINAGE	REVISED AS-BUILT

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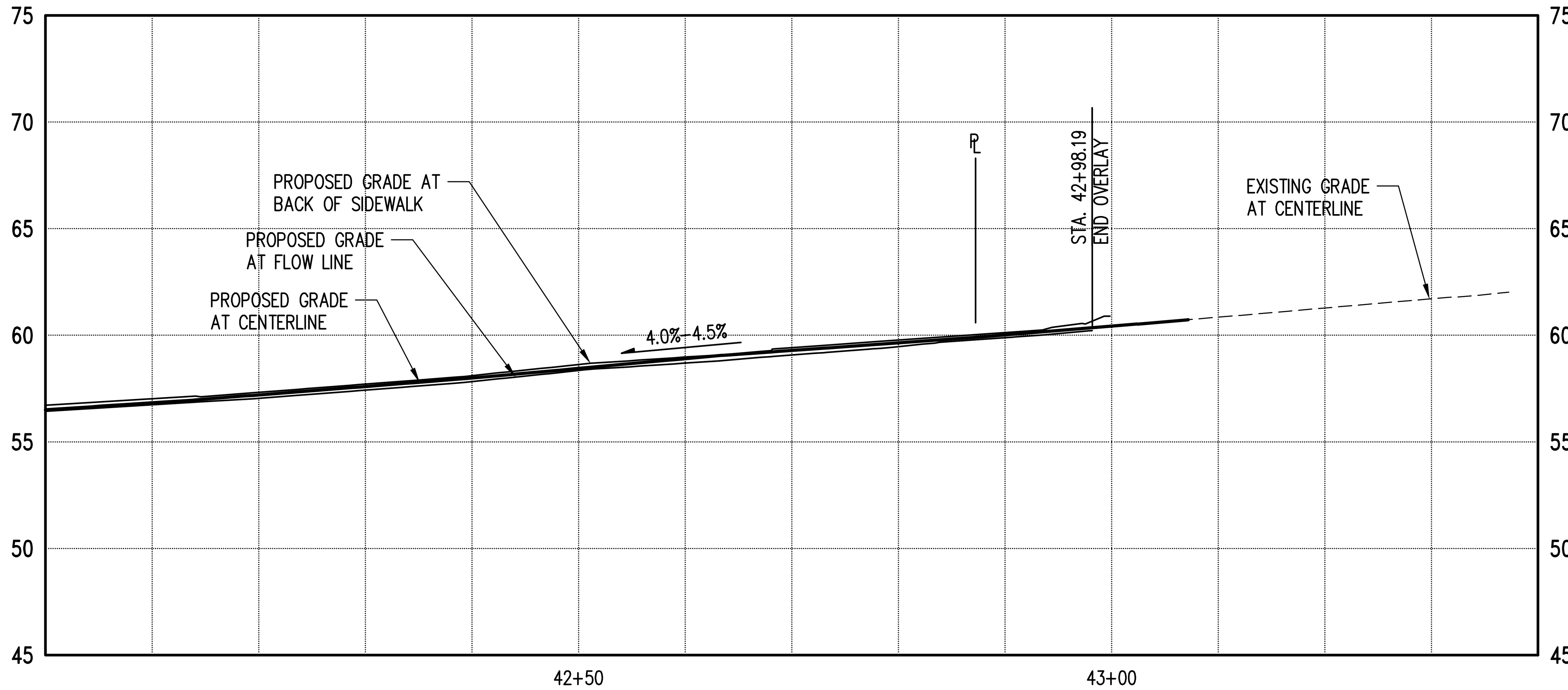
Seattle Department of Transportation

2707 W COMMODORE WAY
CURB, SIDEWALK & LANDSCAPE IMPROVEMENTS
27TH AVE W PLAN AND PROFILE

SDOT PROJECT NO. SUSIP0000335
VAULT PLAN NO. 792-809
VAULT SERIAL NO. 39383

Feb 22, 2024 – 6:13pm KyleA Z:\2000001-2009999\2000430 Salmon Bay\CADD\Design\SIP-East\05 SIP-SBSE-PLANS.dwg

100% Complete Street Improvement Plan



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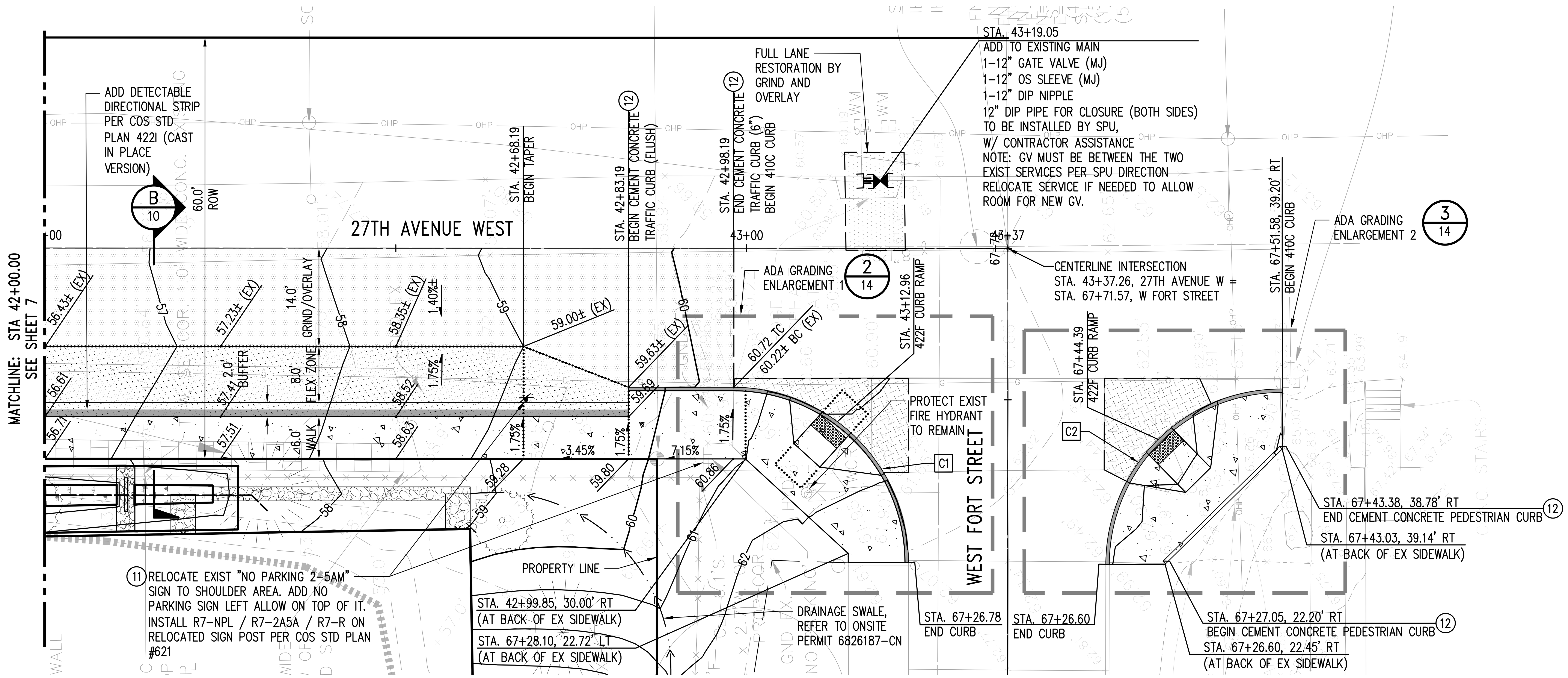
11. REFER TO CITY OF SEATTLE GENERAL NOTES 32.
12. REFER TO WSDOT STD PLAN F-10.12-04, CEMENT CONCRETE CURBS.



SEE SHEET 9 FOR WEST FORT STREET PLAN AND PROFILE

CURVE C1	FL EL
PC STA 42+98.10, 19.79' RT	60.22
1/4	60.78
1/2	61.14± (EX)
3/4	61.61± (EX)
PT STA 67+26.78, 14.13' LT	62.09± (EX)
Δ= 89°59'06" R= 25.00' L= 39.26'	

CURVE C2	FL EL
PC STA 67+26.60, 14.00' RT	62.49± (EX)
1/4	62.45± (EX)
1/2	62.54
3/4	62.95± (EX)
PT STA 67+51.58, 39.20' RT	63.43± (EX)
Δ= 90°23'57" R= 25.00' L= 39.44'	

0 5 10 20 — 1 inch = 10 ft. HORZ
0 2.5 5 10 — 1 inch = 5 ft. VERT

INSITE SALMON BAY STORAGE – SDCI PROJECT NUMBER: 6826187-CN

DATE	MARK	NATURE	REVISIONS	MADE	CHK'D	REV'D

JENNIFER R. CLAPHAM, STATE OF WASHINGTON, 45799, REGISTERED PROFESSIONAL ENGINEER, 2024-02-22

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ENGINEER/LA/SURVEYOR	SDOT PROJECT MANAGER
SPU/WATER ENGINEERING	SDOT SUPERVISOR
SPU/DRAINAGE	REVISED AS-BUILT

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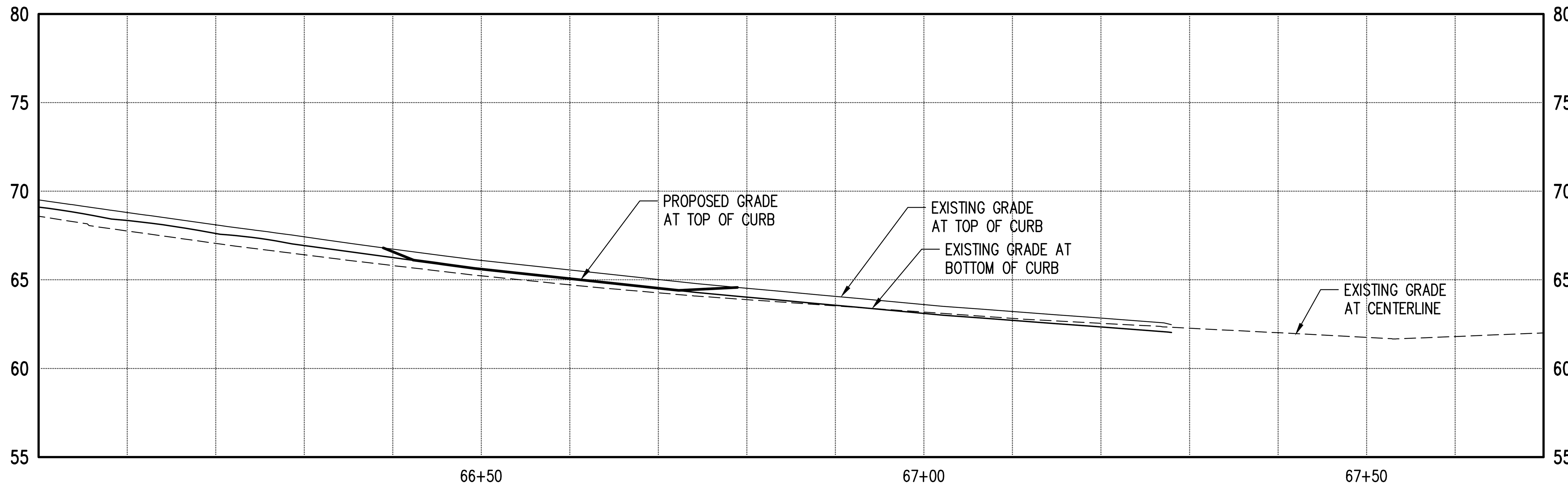
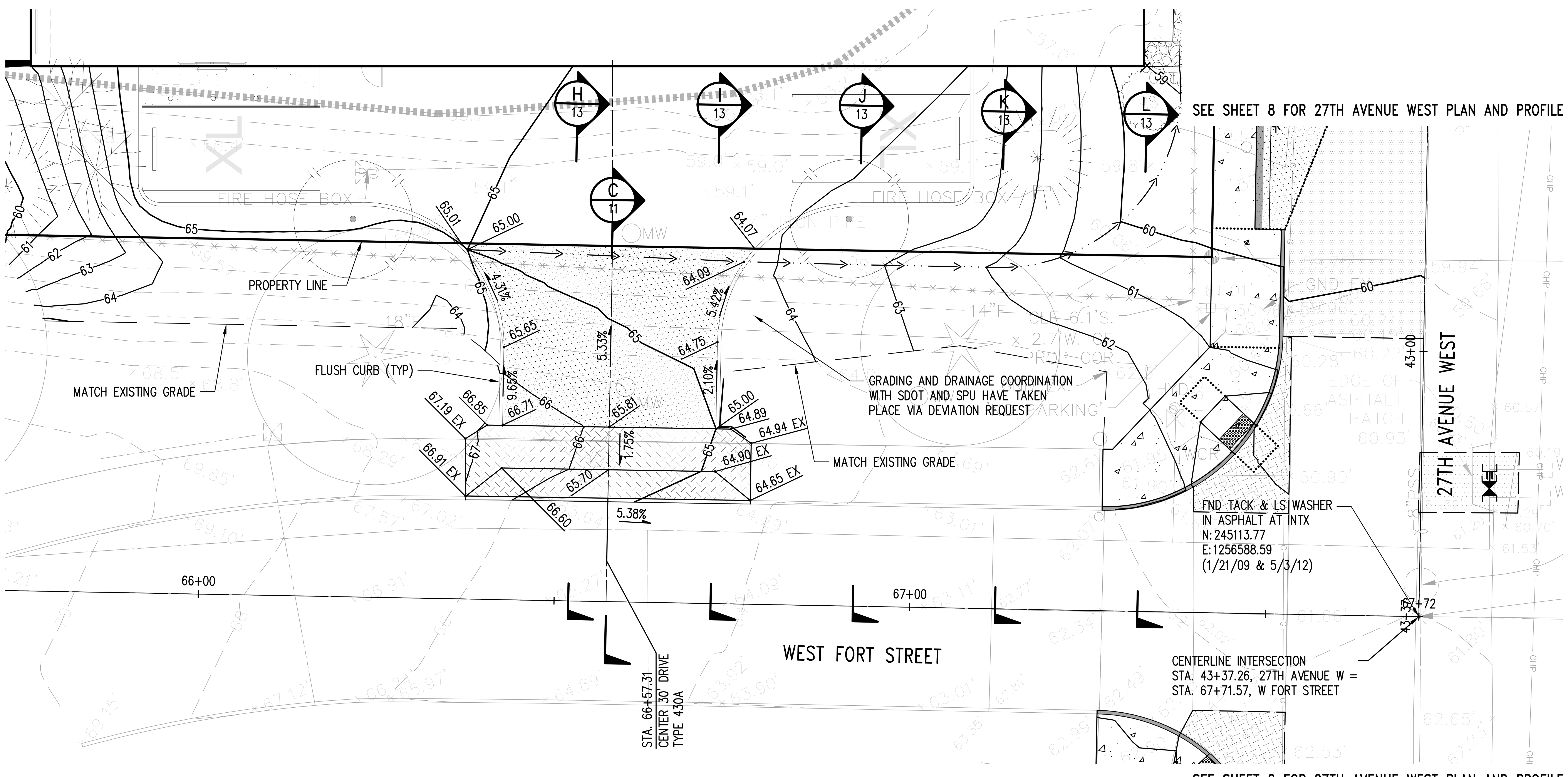
2707 W COMMODORE WAY
CURB, SIDEWALK & LANDSCAPE IMPROVEMENTS
27TH AVE W PLAN AND PROFILE

SDOT PROJECT NO. SUSIP0000335
VAULT PLAN NO. 792-809
VAULT SERIAL NO. 39383

100% Complete Street Improvement Plan





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INSITE SALMON BAY STORAGE – SDCI PROJECT NUMBER: 6826187-CN

MARK	DATE	NATURE REVISIONS	MADE	CHK'D	REV'D

KyleA
Feb 22, 2024 – 6:14pm Z:\2000001-2009999\2000430 Salmon Bay\CADD\Design\SIP-East\05 SIP-SBSE-PLANS.dwg

JENNIFER R. CLAPHAM STATE OF WASHINGTON 46799 REGISTERED PROFESSIONAL ENGINEER 2024-02-22

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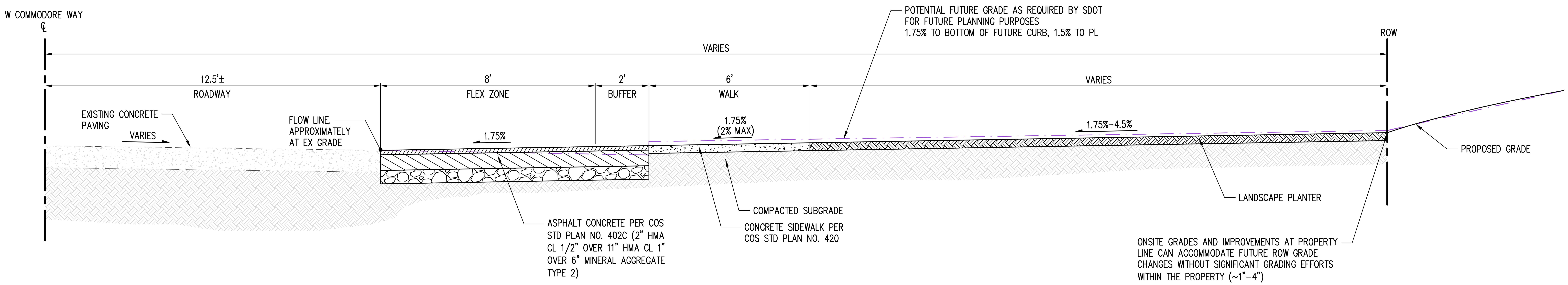
W FORT ST PLAN AND PROFILE

SDOT PROJECT NO. SUSIP0000335
VAULT PLAN NO. 792–809
VAULT SERIAL NO. 39383
SHEET 9 OF 26

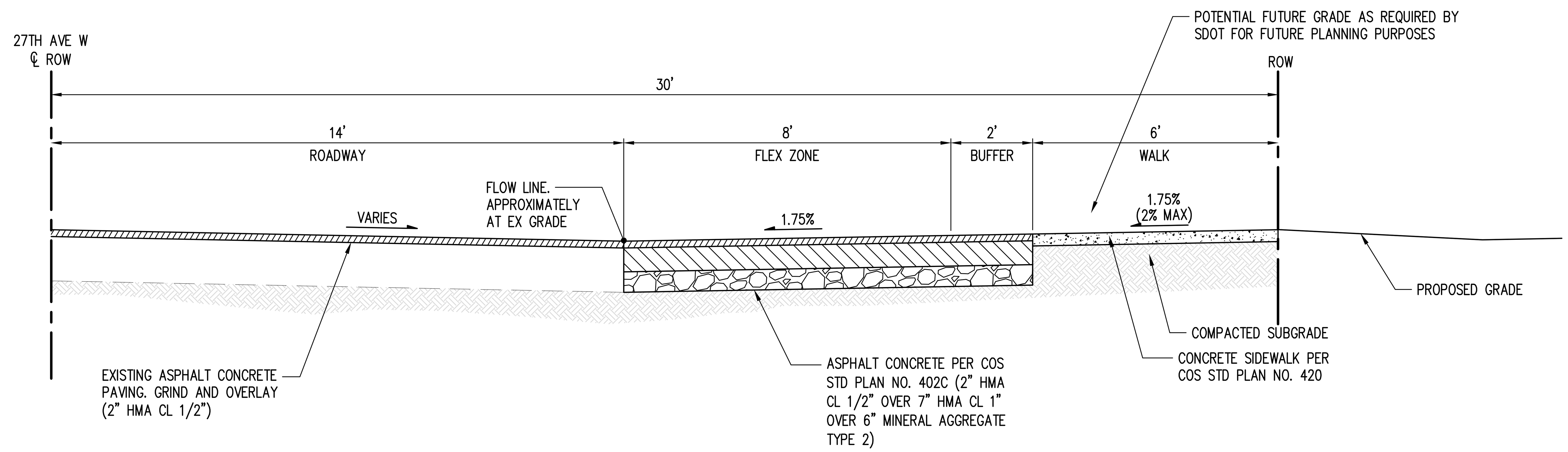
100% Complete Street Improvement Plan



SECTION – W COMMODORE WAY

SCALE: 1" = 2'

A
5,6



SECTION – 27TH AVE W

SCALE: 1" = 2'

B
7,8

DATE	MARK	NATURE	MADE	CHK'D	REV'D
		REVISIONS			

KyleA
Feb 22, 2024 – 6:14pm Z:\2000001–2009999\2000430 Salmon Bay\CADD\Design\SIP-East\10 SIP-SBSE-DETAILS.dwg

JENNIFER R. CLAPHAM, STATE OF WASHINGTON, 46799, REGISTERED PROFESSIONAL ENGINEER, 2024-02-22

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com

811 Call 811 two business days before you dig

INSITE SALMON BAY STORAGE – SDCI PROJECT NUMBER: 6826187-CN

APPROVED FOR SDOT PERMITTING

ENGINEER/LA/SURVEYOR	SDOT PROJECT MANAGER
SPU/WATER ENGINEERING	SDOT SUPERVISOR
SPU/DRAINAGE	REVISED AS-BUILT

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS IN EFFECT ON THE DATE SHOWN ABOVE, AND SUPPLEMENTED BY SPECIAL PROVISIONS.

Seattle Department of Transportation

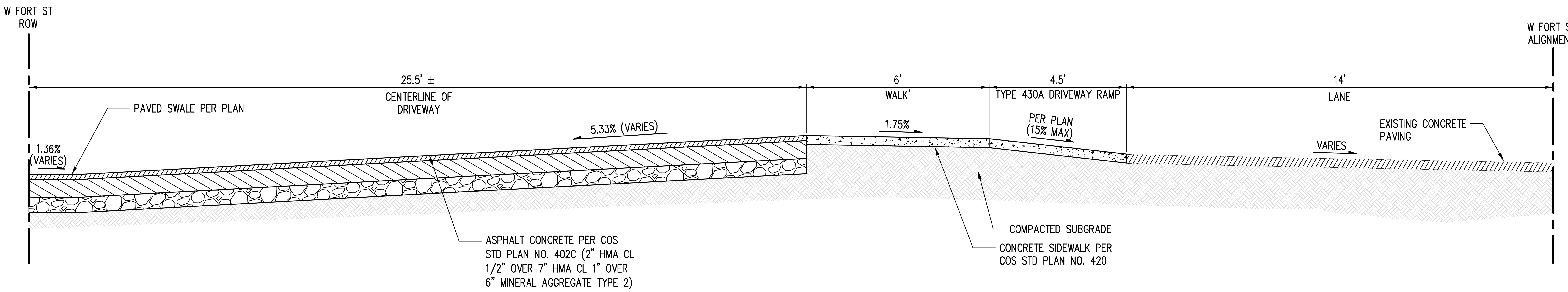
2707 W COMMODORE WAY

CURB, SIDEWALK & LANDSCAPE IMPROVEMENTS

SECTIONS AND DETAILS

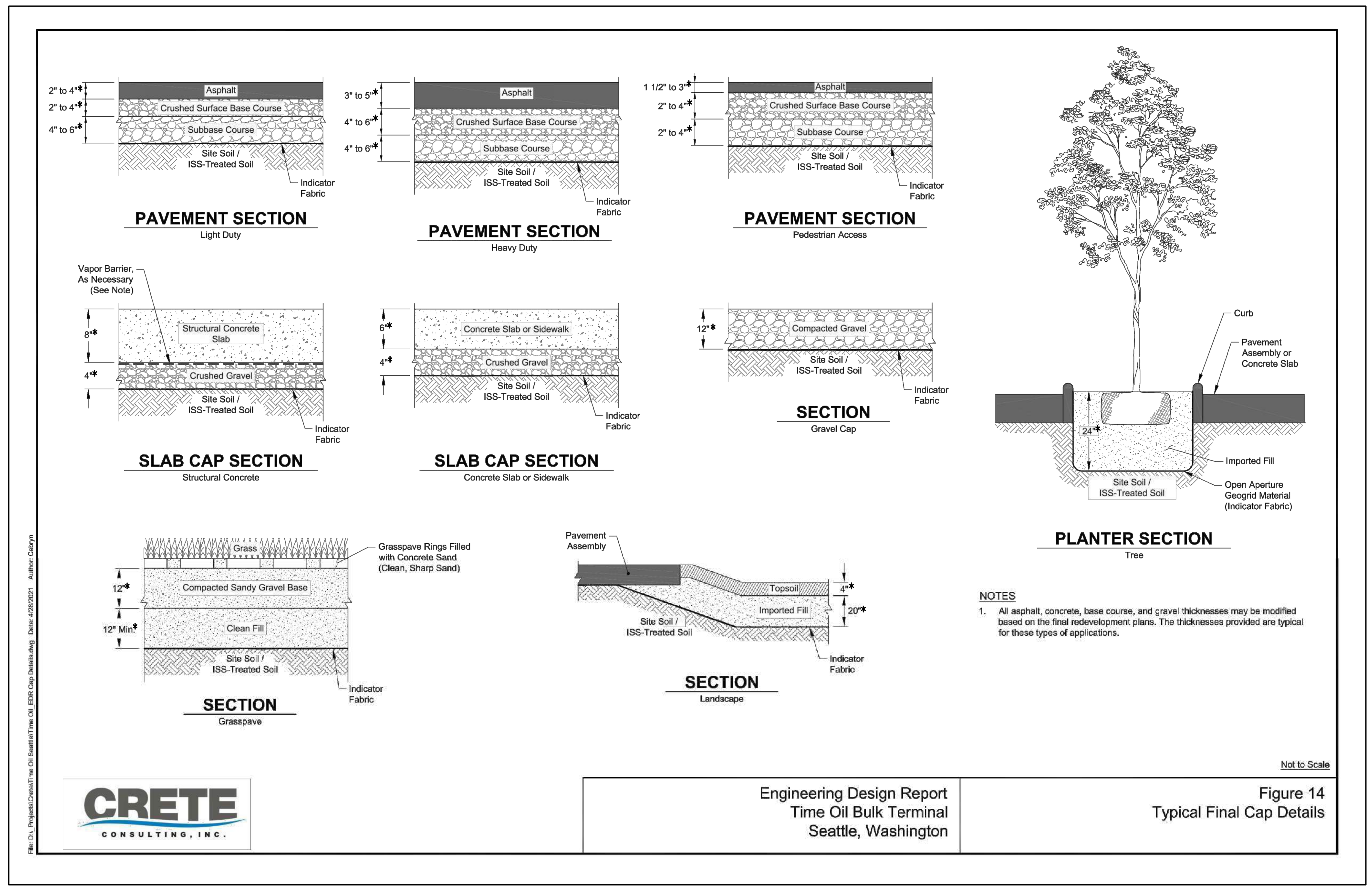
SDOT PROJECT NO. SUSIP0000335
VAULT PLAN NO. 792–809
VAULT SERIAL NO. 39383
SHEET 10 OF 26

100% Complete Street Improvement Plan



SECTION – W FORT STREET DRIVEWAY C/9

SCALE: 1" = 2'



*REFER TO PLANS AND LEGEND FOR ACTUAL DIMENSIONS

PAVING SECTIONS

NTS

INSITE SALMON BAY STORAGE – SDCI PROJECT NUMBER: 6826187-CN

DATE	MARK	NATURE REVISIONS	MADE	CHK'D	REV'D

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SECTIONS AND DETAILS

SDOT PROJECT NO. SUSIP0000335
VAULT PLAN NO. 792–809
VAULT SERIAL NO. 39383
SHEET 11 OF 26

JENNIFER R. CLAPHAM, STATE OF WASHINGTON, 45799, REGISTERED PROFESSIONAL ENGINEER, 2024-02-22

Feb 22, 2024 – 6:14pm KyleA
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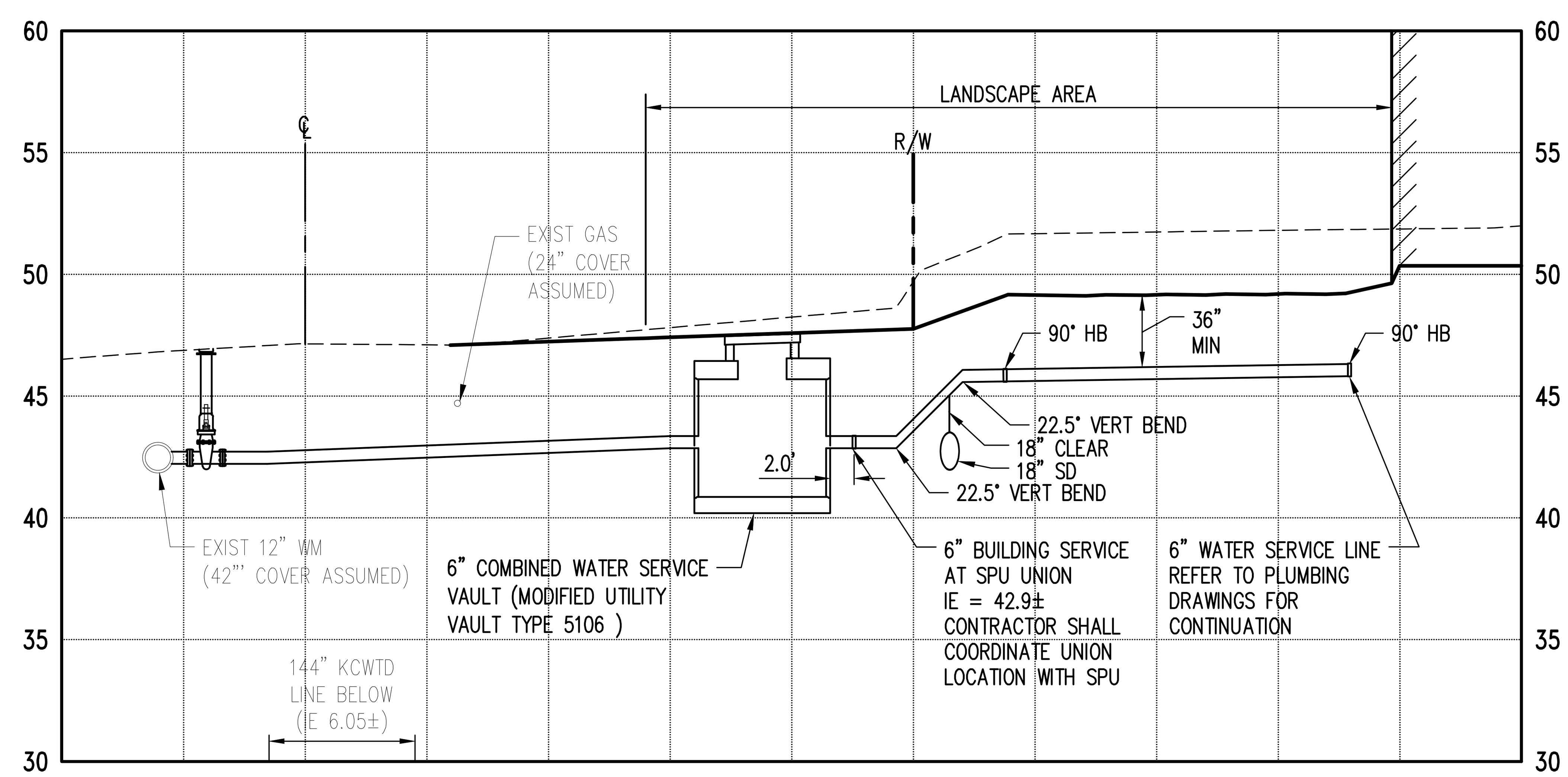
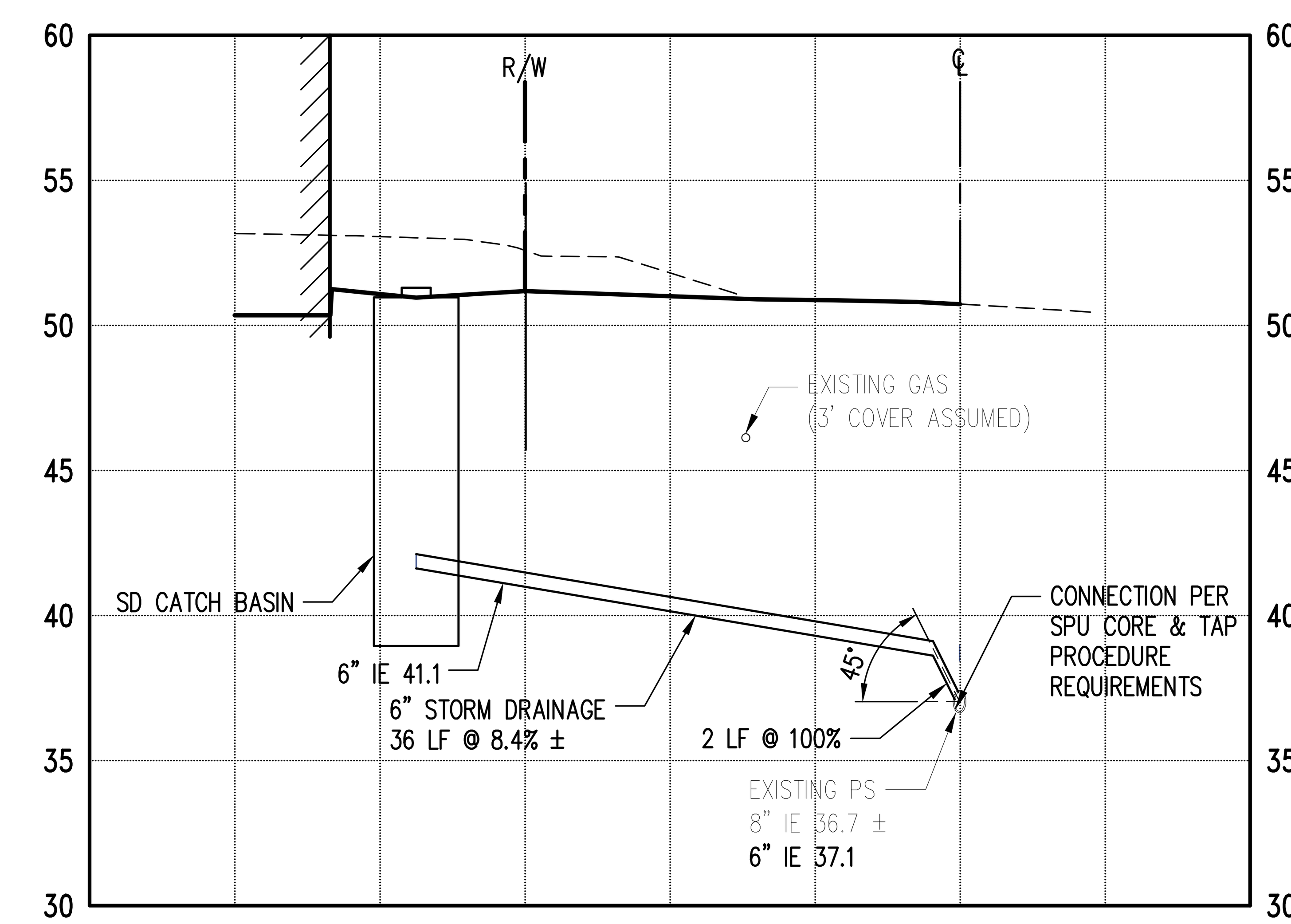
100% Complete Street Improvement Plan



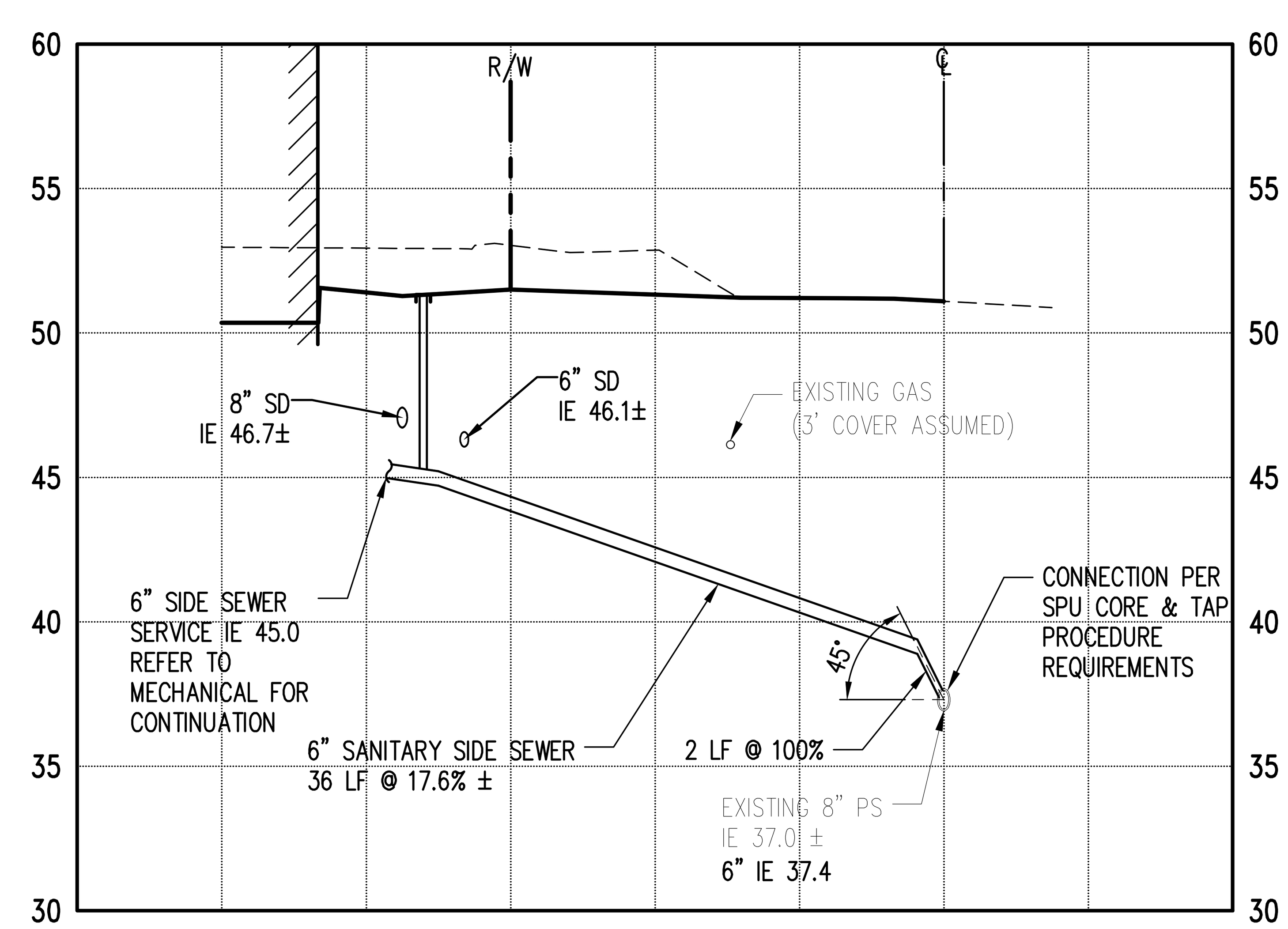
WATER SERVICE PROFILE E/6

SCALE: H: 1" = 10' V: 1" = 5'



STORM DRAINAGE PROFILE F/7

SCALE: H: 1" = 10' V: 1" = 5'



SANITARY SIDE SEWER PROFILE G/7

SCALE: H: 1" = 10' V: 1" = 5'

NOTES:

1. CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITY CROSSINGS PRIOR TO UTILITY LINE AND VAULT INSTALLATION. CONTRACTOR SHALL NOTIFY ENGINEER IF VERTICAL AND HORIZONTAL LOCATIONS FOR EXISTING UTILITIES ARE NOT CONSISTENT WITH PLANS.
2. PRIOR TO CONSTRUCTION, VERIFY WITH SPU THE VAULT TYPE TO BE INSTALLED. SPU MAY INSTALL 575 VAULT DEPENDING ON AVAILABILITY OF MECHANICAL COMPONENTS.

DATE	MARK	NATURE	MADE	CHK'D	REV'D

REVISIONS

Feb 22, 2024 – 6:14pm KyleA
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JENNIFER R. CLAPHAM STATE OF WASHINGTON 45799 REGISTERED PROFESSIONAL ENGINEER 2024-02-22

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SPU/WATER ENGINEERING	SDOT SUPERVISOR ....
SPU/DRAINAGE	REVISED AS-BUILT ....

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INSITE SALMON BAY STORAGE – SDCI PROJECT NUMBER: 6826187-CN

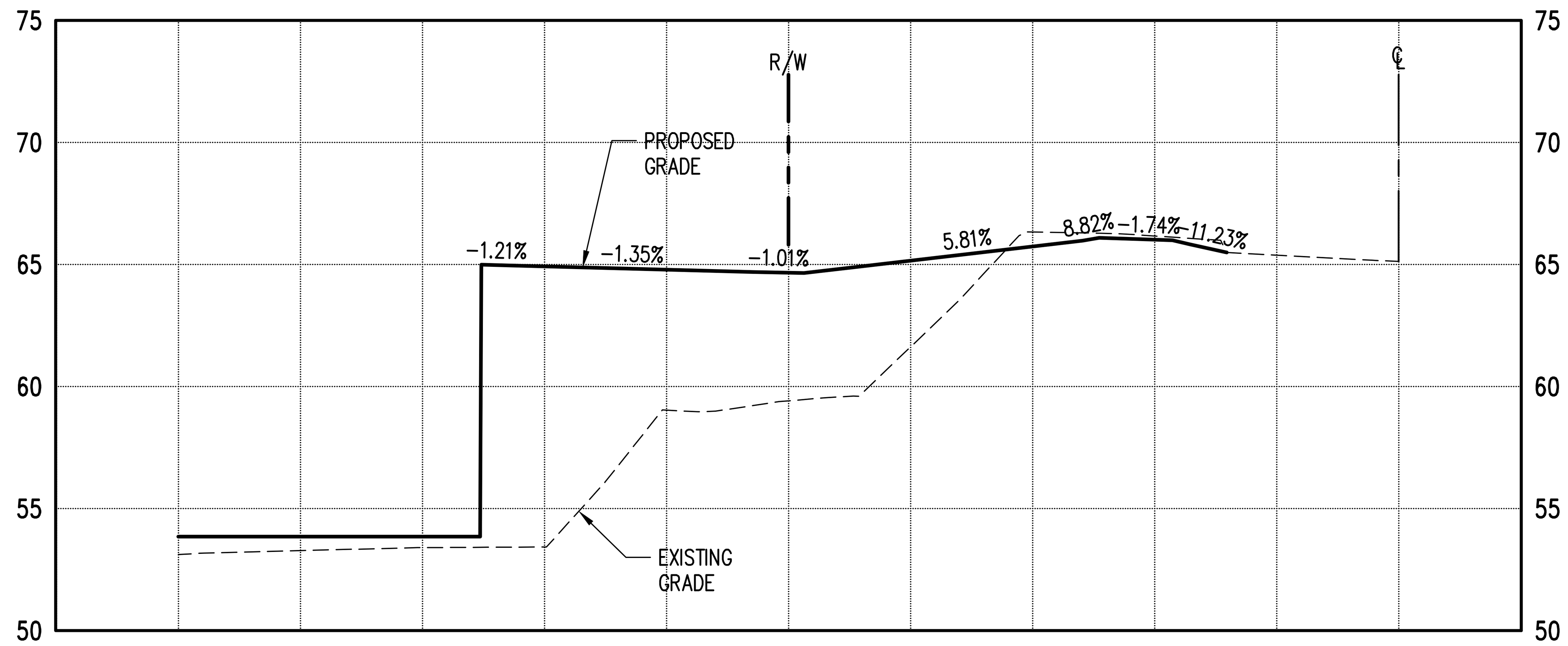
2707 W COMMODORE WAY

CURB, SIDEWALK & LANDSCAPE IMPROVEMENTS

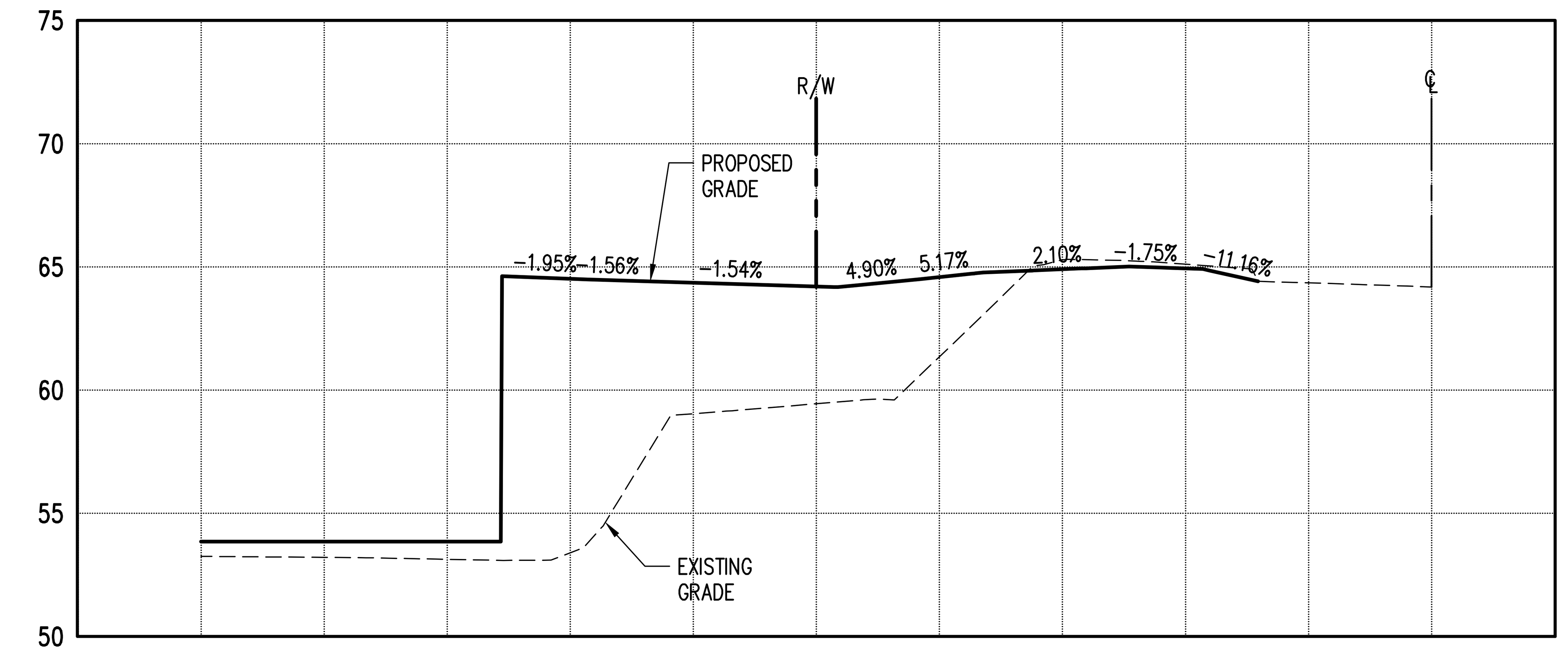
SECTIONS AND DETAILS

SDOT PROJECT NO. SUSIP0000335
VAULT PLAN NO. 792–809
VAULT SERIAL NO. 39383

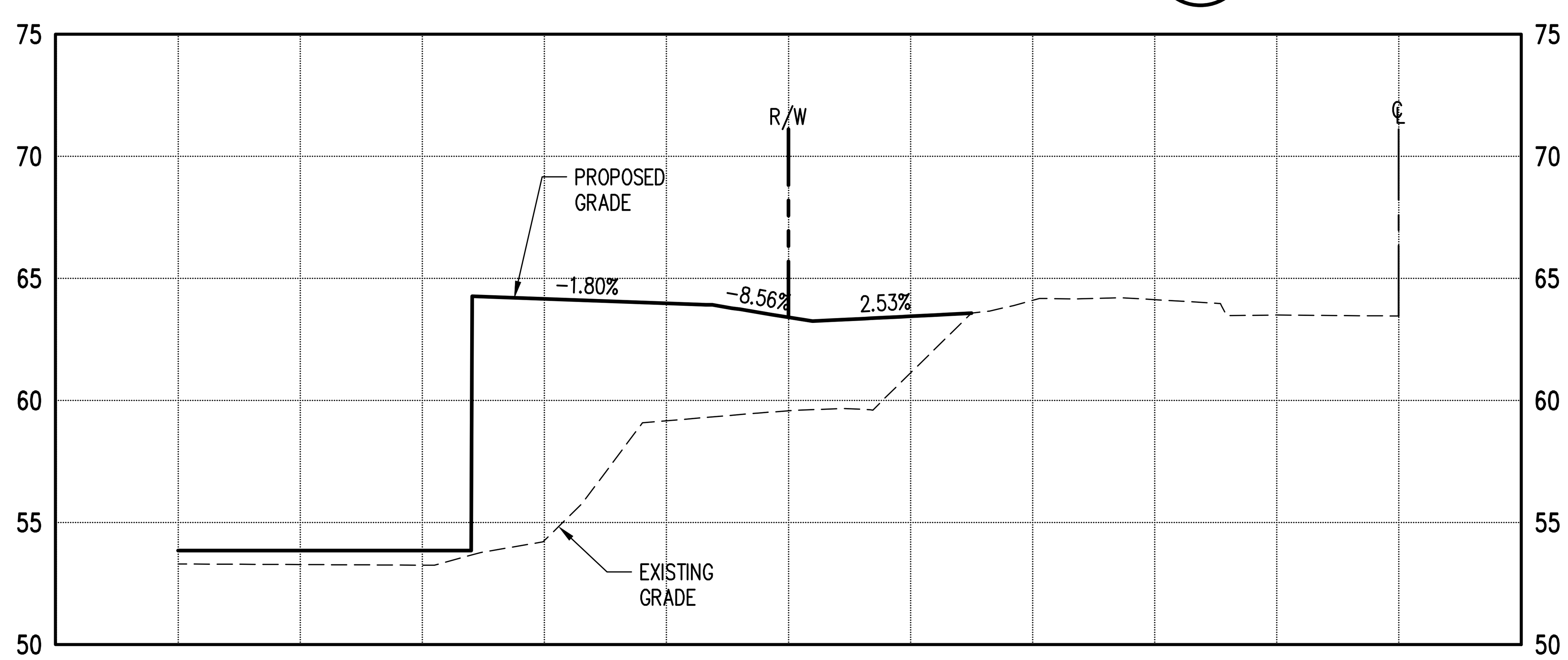
100% Complete Street Improvement Plan



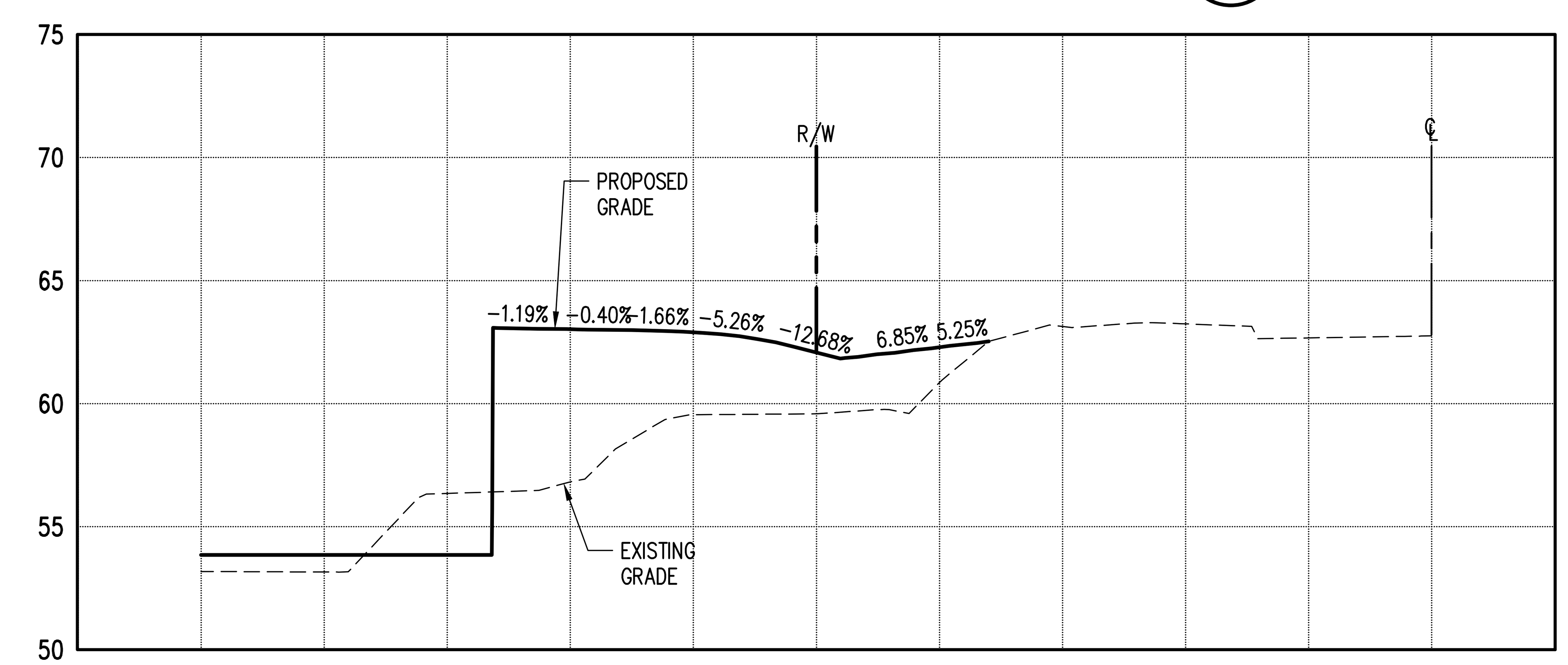
WEST FORT STREET SECTION
STA 66+52
SCALE: H: 1" = 10' V: 1" = 5'
H
9



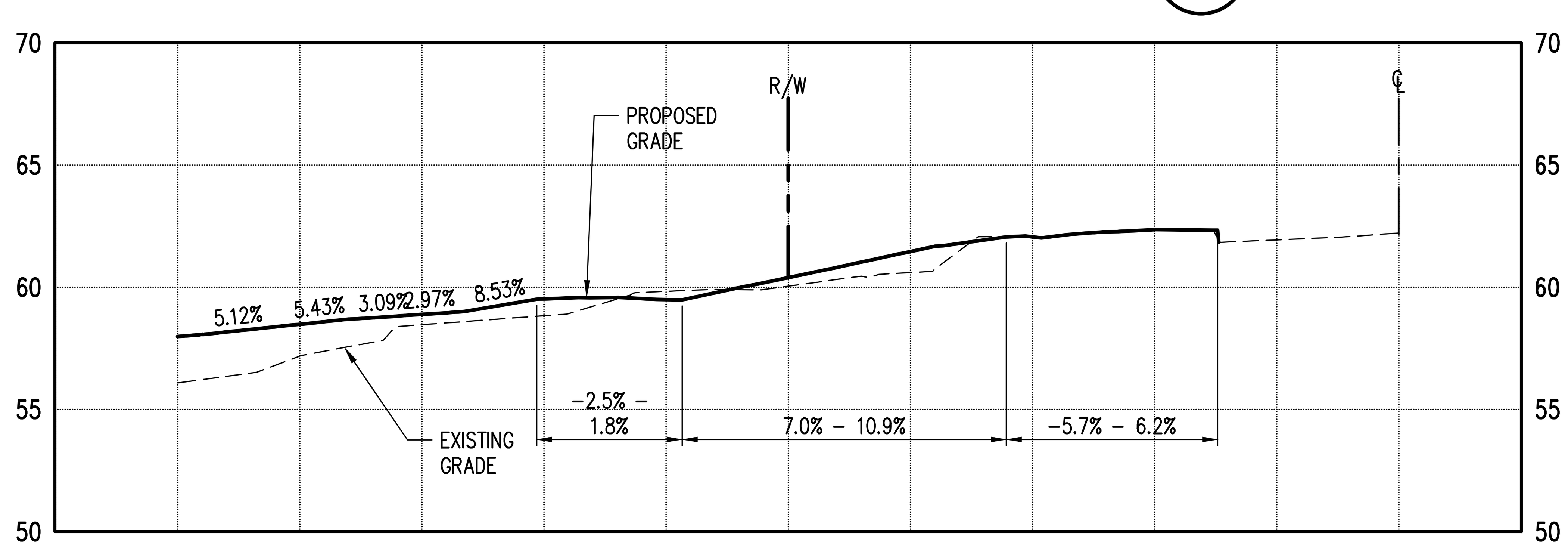
WEST FORT STREET SECTION
STA 66+72
SCALE: H: 1" = 10' V: 1" = 5'
I
9



WEST FORT STREET SECTION
STA 66+92
SCALE: H: 1" = 10' V: 1" = 5'
J
9



WEST FORT STREET SECTION
STA 67+12
SCALE: H: 1" = 10' V: 1" = 5'
K
9



WEST FORT STREET SECTION
STA 67+32
SCALE: H: 1" = 10' V: 1" = 5'
L
9

DATE	MARK	NATURE	REVISIONS	MADE	CHK'D	REV'D

KyleA
Feb 22, 2024 – 6:14pm Z:\2000001-2009999\2000430 Salmon Bay\CADD\Design\SIP-East\10 SIP-SBSE-DETAILS.dwg

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INSITE SALMON BAY STORAGE – SDCI PROJECT NUMBER: 6826187-CN

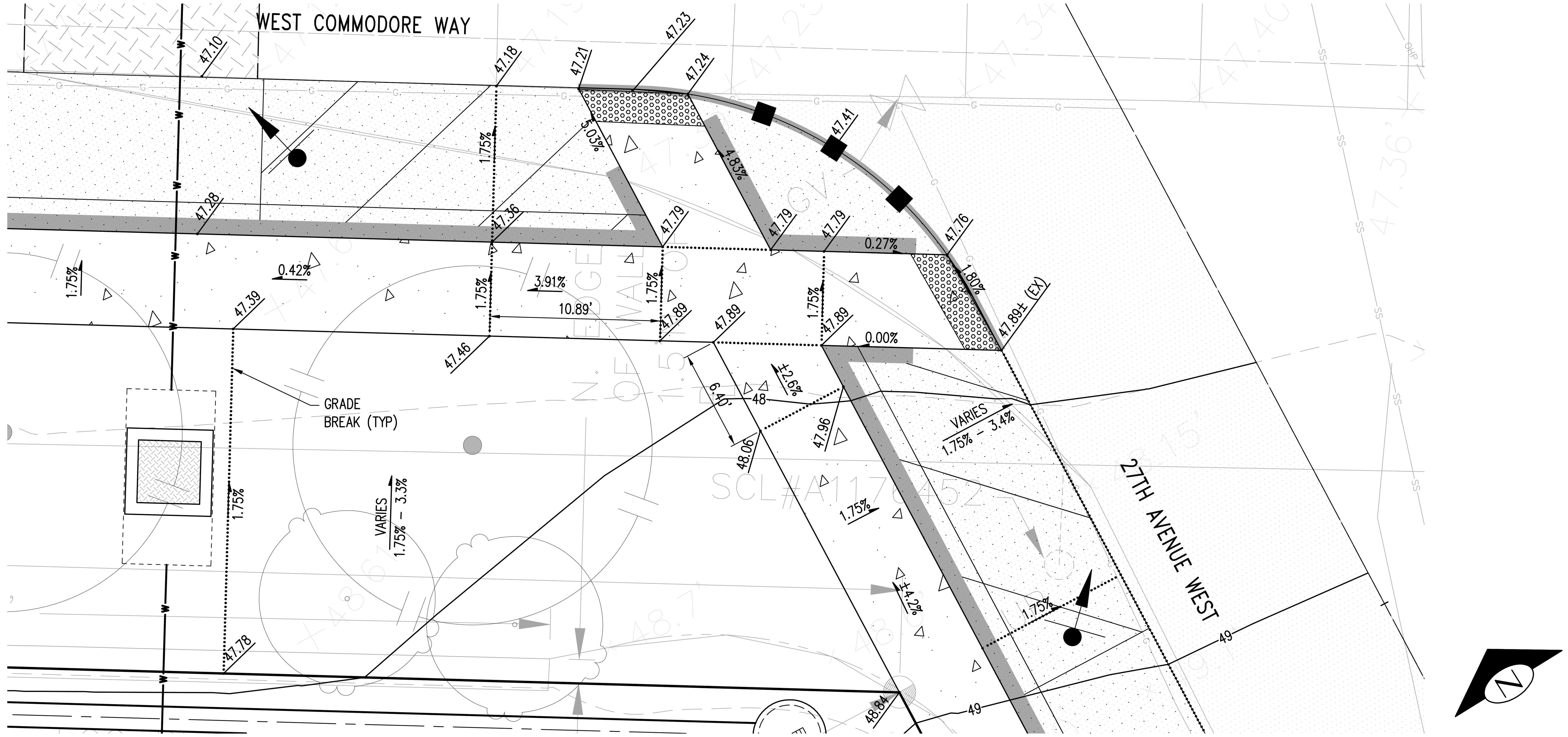
2707 W COMMODORE WAY

CURB, SIDEWALK & LANDSCAPE IMPROVEMENTS

WEST FORT STREET SECTIONS

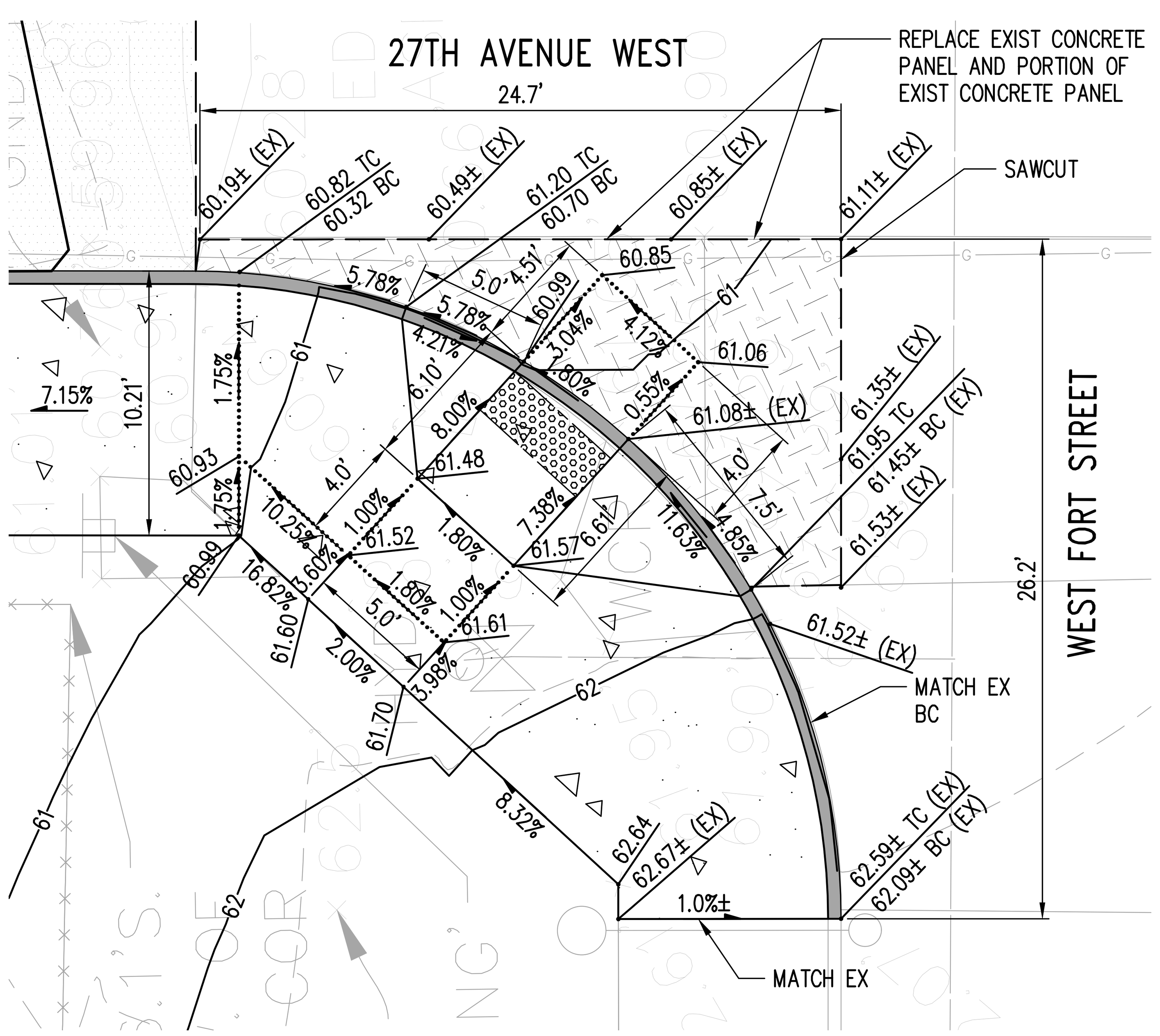
SDOT PROJECT NO. SUSIP0000335
VAULT PLAN NO. 792–809
VAULT SERIAL NO. 39383
SHEET 13 OF 26

100% Complete Street Improvement Plan



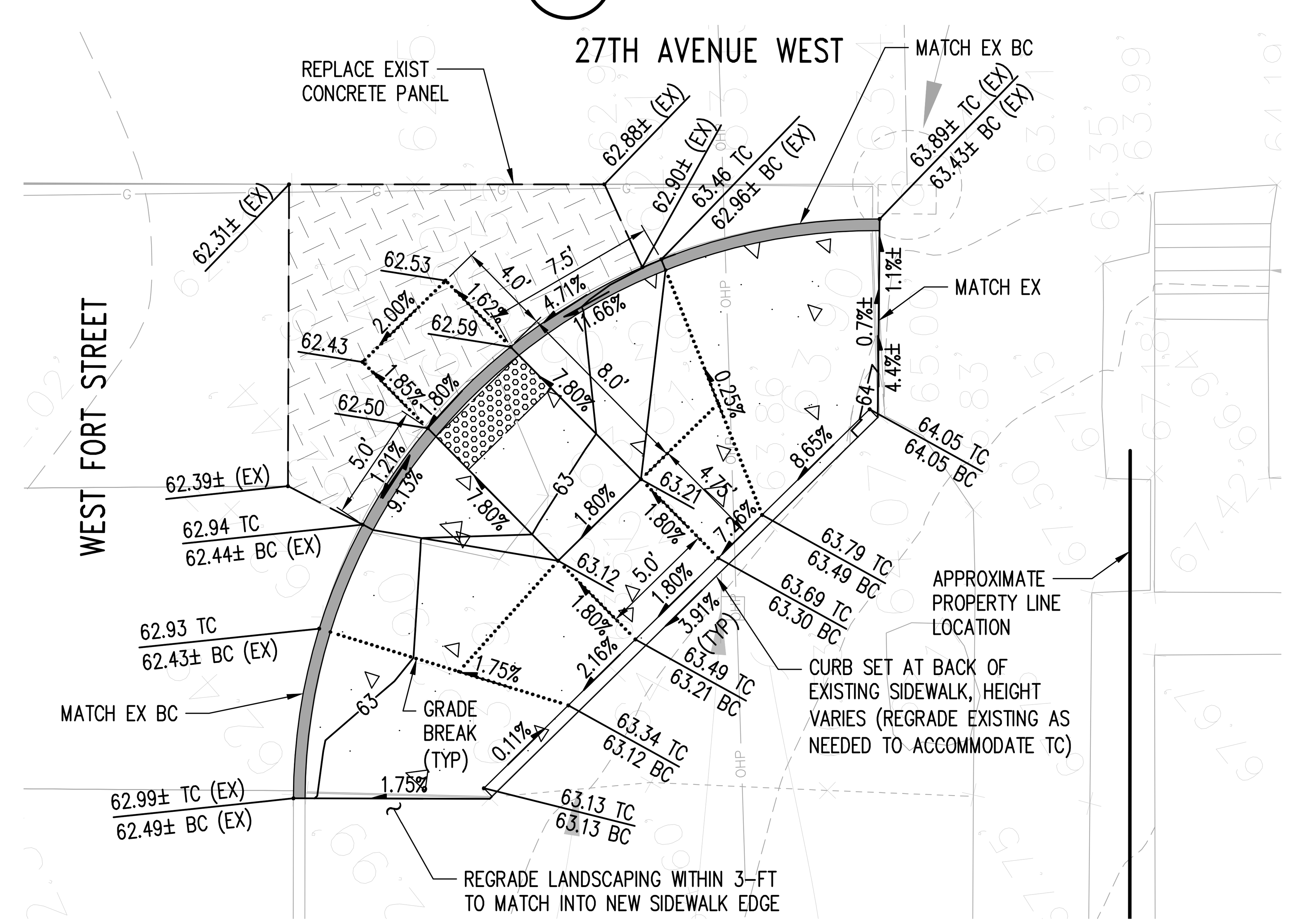
WEST COMMODORE SIDEWALK ENLARGEMENT (1)

SCALE: 1" = 5'



ADA GRADING ENLARGEMENT 1 (2)

SCALE: 1" = 5'



ADA GRADING ENLARGEMENT 2 (3)

SCALE: 1" = 5'

0 2.5 5 10
1 inch = 5 feet

INSITE SALMON BAY STORAGE – SDCI PROJECT NUMBER: 6826187-CN

DATE	MARK	NATURE REVISIONS	MADE	CHK'D	REV'D

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SECTIONS AND DETAILS

SDOT PROJECT NO. SUSIP0000335
VAULT PLAN NO. 792–809
VAULT SERIAL NO. 39383
SHEET 14 OF 26

Feb 22, 2024 – 6:14pm KyleA
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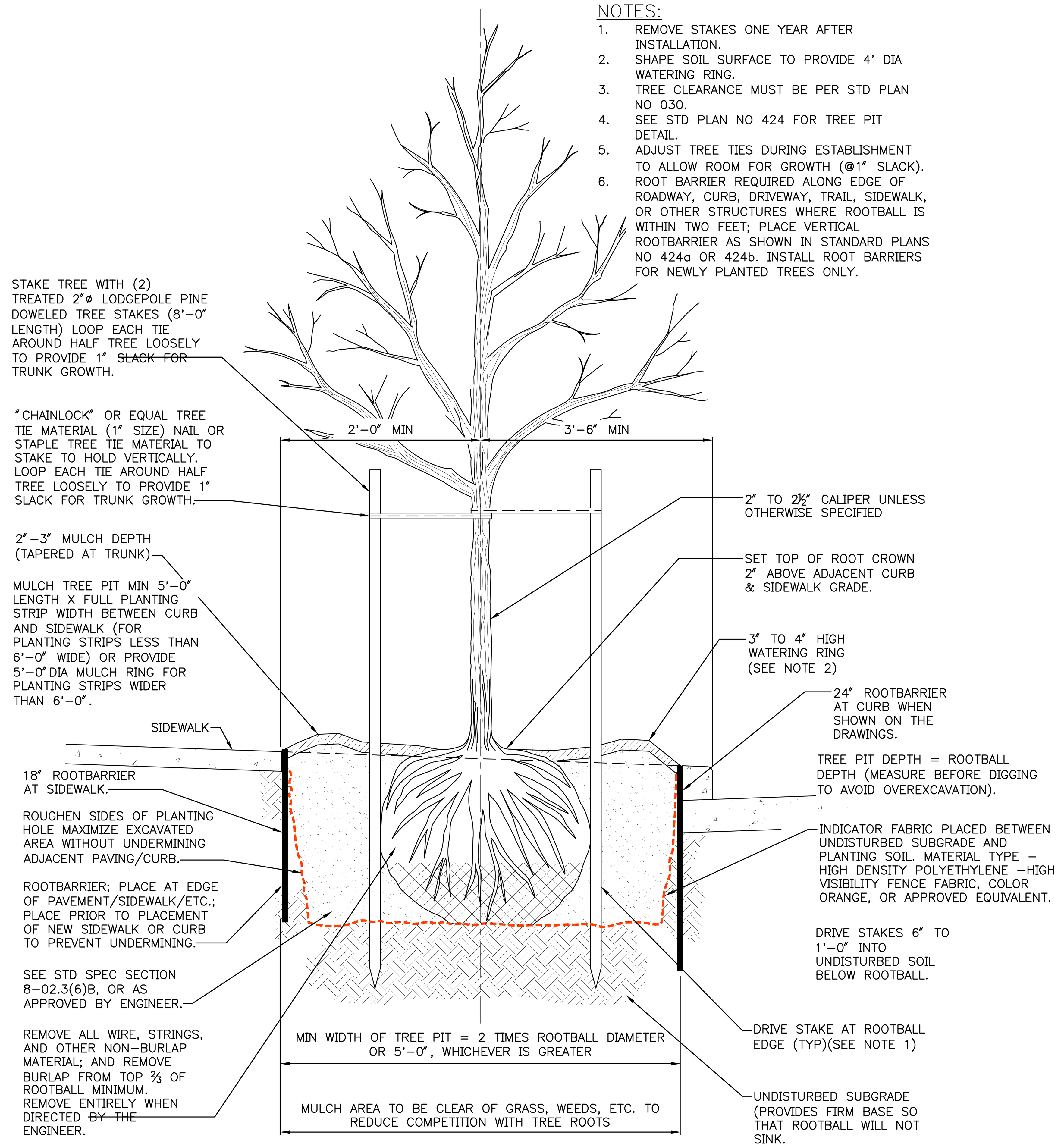
100% Complete Street Improvement Plan

NOTES:
1. REMOVE STAKES ONE YEAR AFTER INSTALLATION.
2. SHAPE SOIL SURFACE TO PROVIDE 4' DIA WATERING RING.
3. TREE CLEARANCE MUST BE PER STD PLAN NO 030.
4. SEE STD PLAN NO 424 FOR TREE PIT DETAIL.
5. ADJUST TREE TIES DURING ESTABLISHMENT TO ALLOW ROOM FOR GROWTH (@1" SLACK).
6. ROOT BARRIER REQUIRED ALONG EDGE OF ROADWAY, CURB, DRIVEWAY, TRAIL, SIDEWALK, OR OTHER STRUCTURES WHERE ROOTBALL IS WITHIN TWO FEET; PLACE VERTICAL ROOTBARRIER AS SHOWN IN STANDARD PLANS NO 424a OR 424b. INSTALL ROOT BARRIERS FOR NEWLY PLANTED TREES ONLY.



1 / 2 TREE PLANTING IN PLANTING STRIP
SCALE:N.T.S. SIMILAR FOR ALL TREE PLANTING

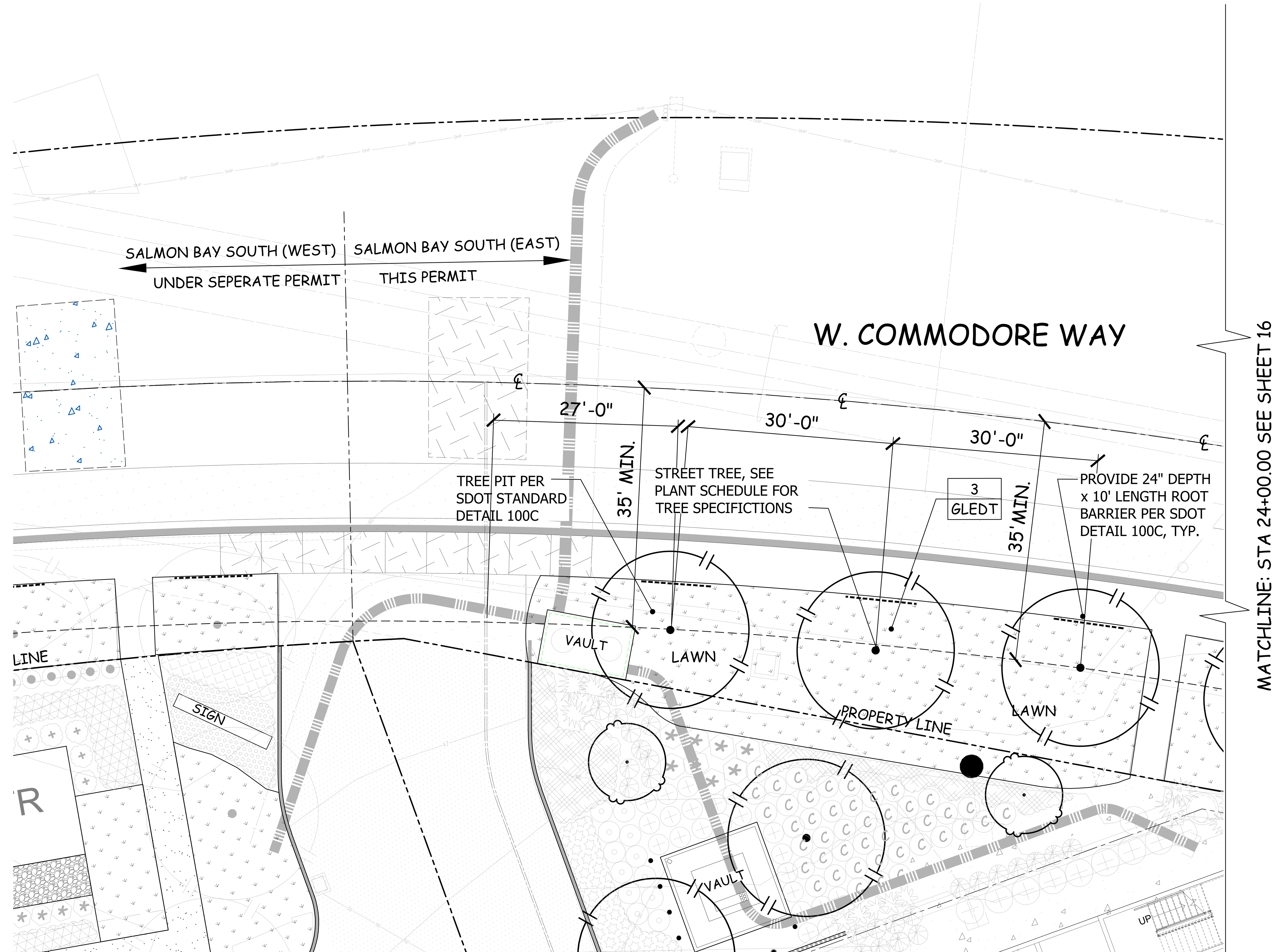
PLANT LIST STREET TREES

December 20, 2022

QUAN	SYMBOL	PLANT NAME	SIZE
3	GLEDT	GLEDITSIA TRICANTHOS SUNBURST HONEY LOCUST	2.0" CAL. B/B, Street Tree to conform to SDOT Standards

NOTES FOR STREET TREES:

- Trees are to be a minimum of 2-2.5" caliper.
- Right of Way Street Tree planting under SDOT urban Forestry Permit
- SDOTTREE0004987. Contact DOT_LA@Seattle.gov for permit issuance prior to planting.
- Soil is to be amended per COS plan 142.
- Street trees are to be planted per COS plan 100c.
- Provide 18" deep x 6' length root barrier, centered to each tree and placed along the sidewalk edge at each street tree, typical.
- Notify SDOT Urban Forestry two working days prior to planting: DOT_LA@Seattle.gov. To review size, quality and location of the street trees.
- Street trees shall receive supplemental water for the first three growing seasons following planting.
- Soil in all right of way planting beds is 24" depth.



1 / 15 LANDSCAPE PLAN
SCALE:1"- = 10'-0"

0 10 20
PLAN IN FEET

INSITE SALMON BAY STORAGE – SDCI PROJECT NUMBER: 6826187-CN

DATE	MARK	NATURE REVISIONS	MADE	CHK'D	REV'D

C:\SkyTech Projects\Ken Large\Salmon Bay\Salmon Bay Landscape Plans.dwg
Tom
Feb 23, 2024 – 11:41am

KEN LARGE
Landscape Architect
4823 NE Dotson Loop
Bainbridge, Wa. 98110
Cell: 206-396-7617
E-mail: klla@comcast.net
KLLA LANDSCAPE ARCHITECTS INC.
P 206 396 7617
KLLA@COMCAST.NET
4823 NE Dotson Loop Bainbridge, WA. 98110

Call 811 two business days before you dig

APPROVED FOR SDOT PERMITTING
ENGINEER/LA/SURVEYOR
SDOT PROJECT MANAGER
SPU/WATER ENGINEERING
SDOT SUPERVISOR
SPU/DRAINAGE
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2707 W COMMODORE WAY
CURB, SIDEWALK & LANDSCAPE IMPROVEMENTS
LANDSCAPE IMPROVEMENTS

SDOT PROJECT NO. SUSIP0000335
VAULT PLAN NO. 792–809
VAULT SERIAL NO. 39383

100% Complete Street Improvement Plan

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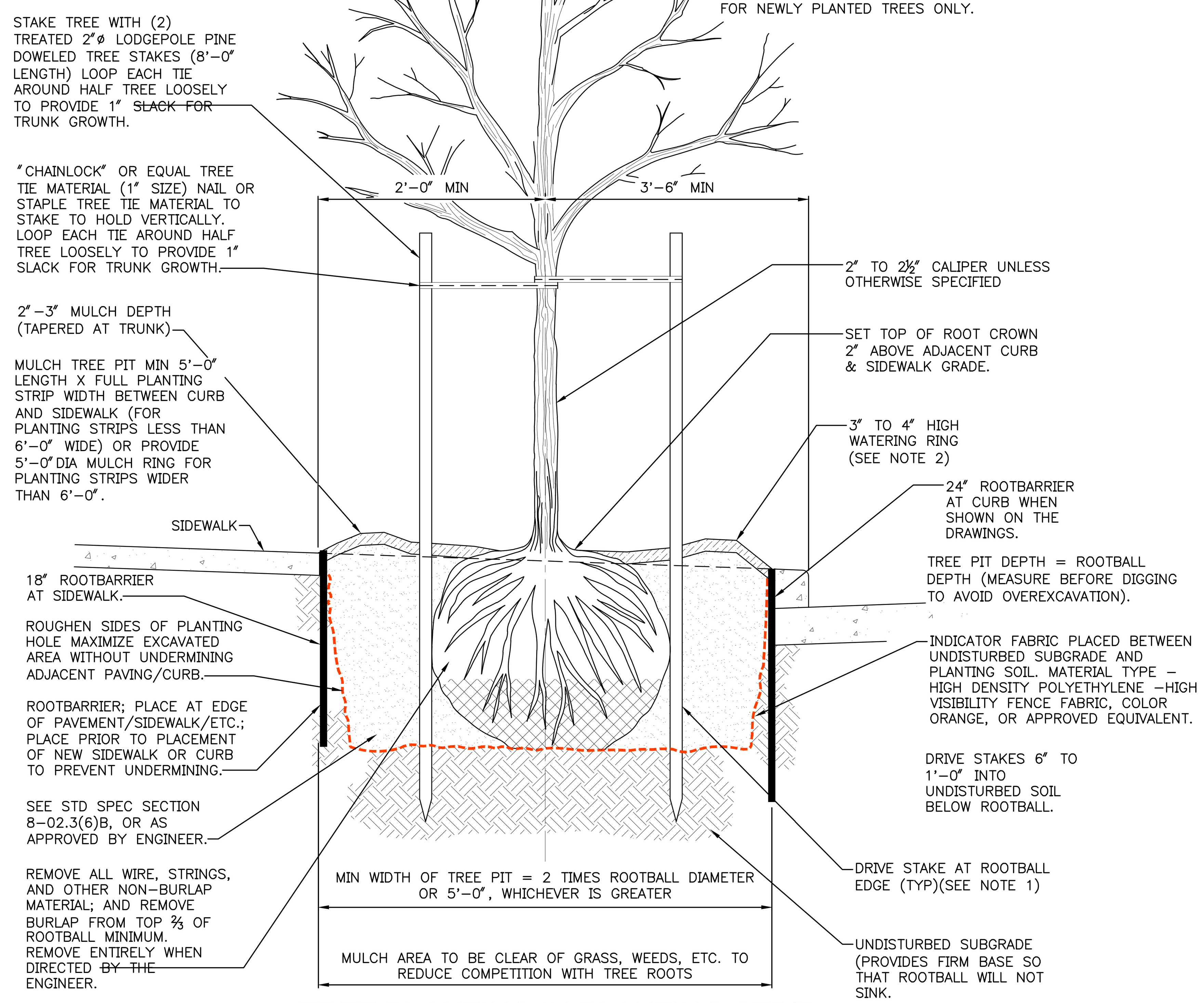

1/2 TREE PLANTING IN PLANTING STRIP

SCALE: N.T.S. — SIMILAR FOR ALL TREE PLANTING

PLANT LIST STREET TREES

December 20, 2022, August 11,2023

QUAN	SYMBOL	PLANT NAME	SIZE
4	GLEDT	GLEDITSIA TRICANTHOS SUNBURST HONEY LOCUST	2.0" CAL. B/B, Street Tree to conform to SDOT Standards
2	CORNK	CORNUS KOUSA CHINENSIS CHINESE DOGWOOD	2.0" CAL. B/B, Street Tree to conform to SDOT Standards

NOTES FOR STREET TREES:

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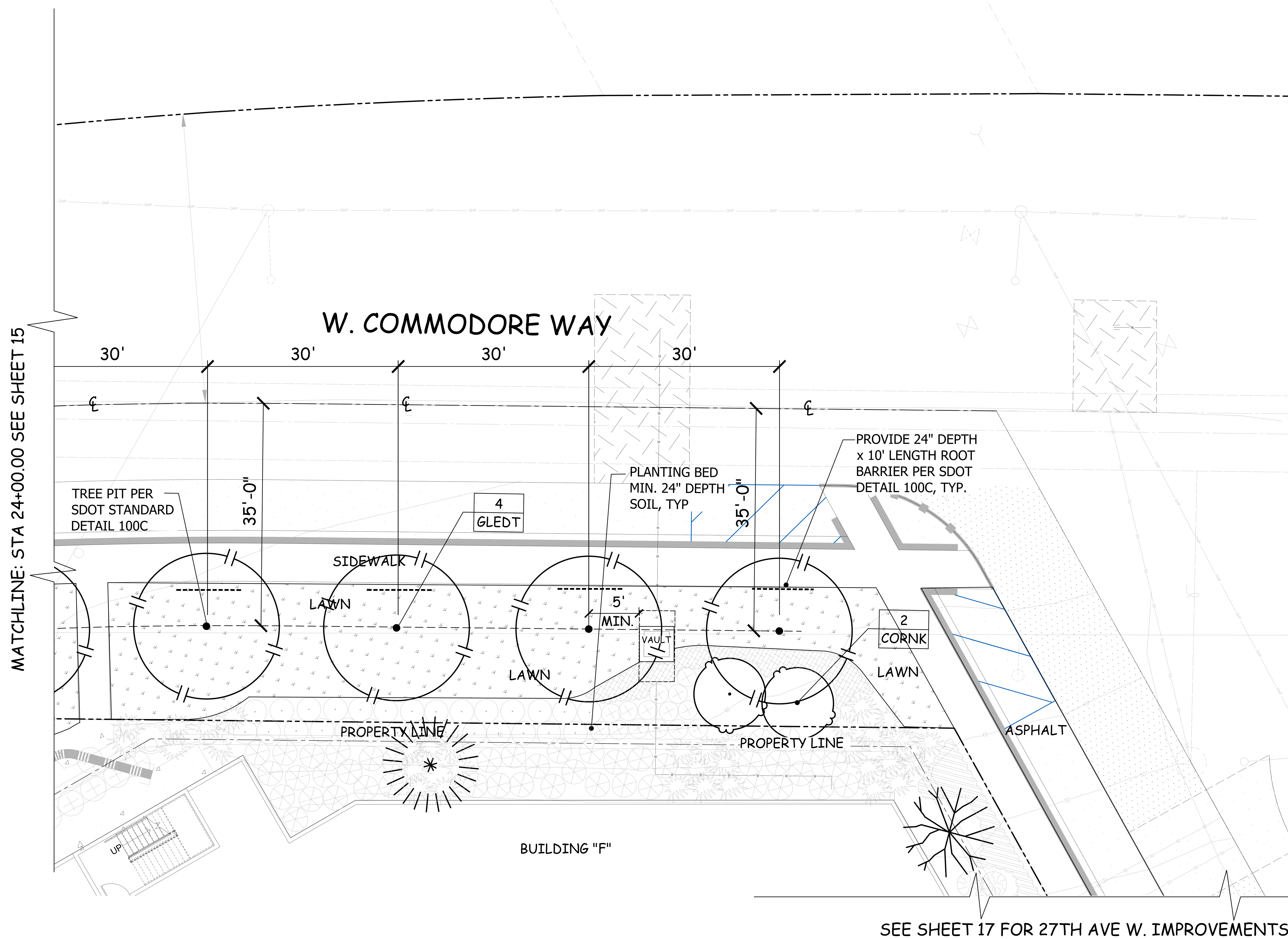

1/16 LANDSCAPE PLAN

SCALE: 1" = 10'-0"

0 10 20 PLAN IN FEET

INSITE SALMON BAY STORAGE – SDCI PROJECT NUMBER: 6826187–CN

DATE	MARK	NATURE REVISIONS	MADE	CHK'D	REV'D

C:\SkyTech Projects\Ken Large\Salmon Bay\Salmon Bay Landscape Plans.dwg

Tom

Feb 23, 2024 – 11:41am

STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT KENNETH ... KLA ... CERTIFICATE #...

Ken Large

KLLA LANDSCAPE ARCHITECTS INC. P 206 396 7617 KLLA@COMCAST.NET 4823 NE Dotson Loop Bainbridge, WA. 98110

KEN LARGE
Landscape Architect
4823 NE Dotson Loop
Bainbridge, Wa. 98110
Cell: 206-396-7617
E-mail: klla@comcast.net

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SPU/WATER ENGINEERING	SDOT SUPERVISOR
SPU/DRAINAGE	REVISED AS–BUILT

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2707 W COMMODORE WAY

CURB, SIDEWALK & LANDSCAPE IMPROVEMENTS

LANDSCAPE IMPROVEMENTS

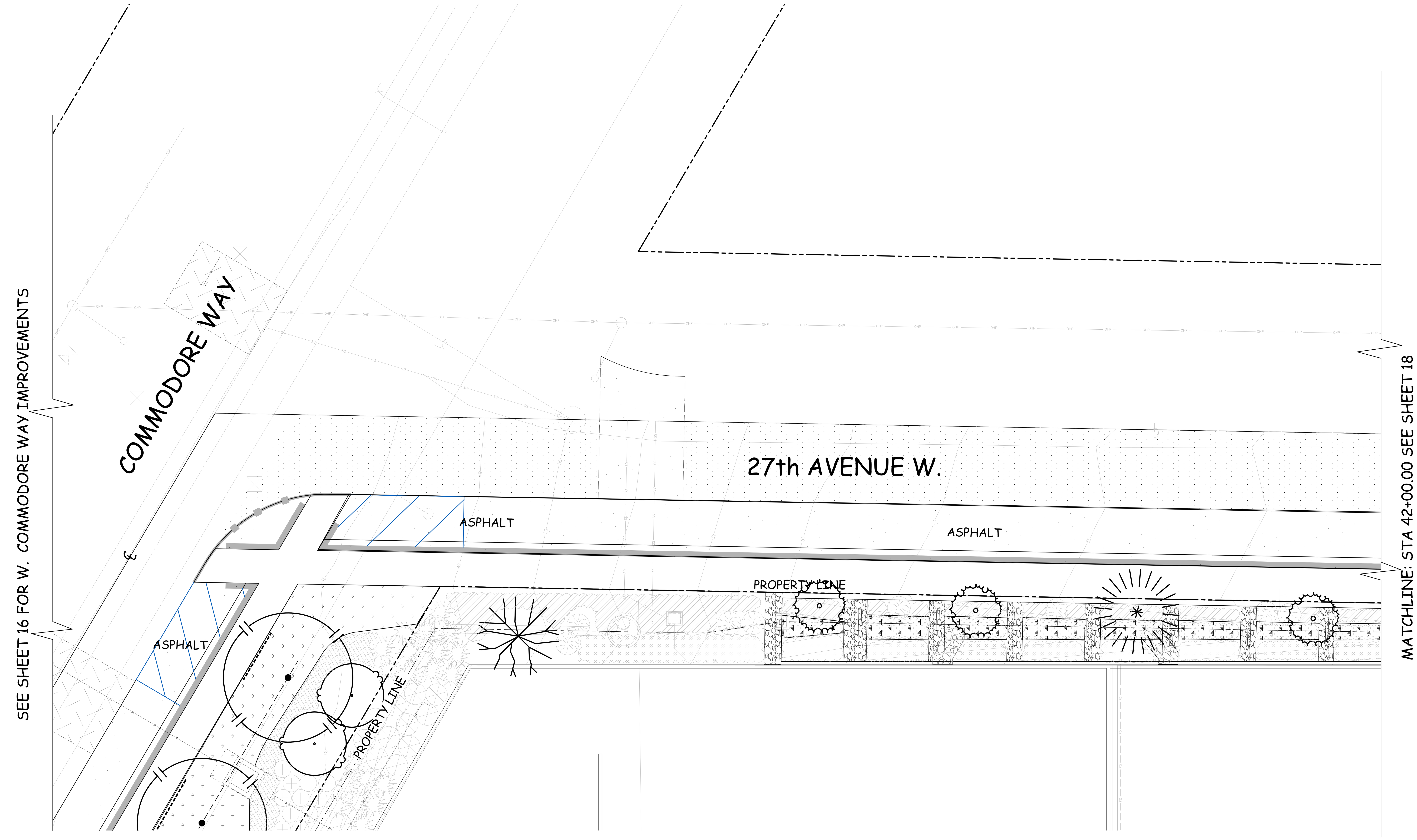
SDOT PROJECT NO. SUSIP0000335

VAULT PLAN NO. 792–809

VAULT SERIAL NO. 39383

SHEET 16 OF 26

100% Complete Street Improvement Plan



1
17
LANDSCAPE PLAN
SCALE: 1"- = 10'-0"

INSITE SALMON BAY STORAGE – SDCI PROJECT NUMBER: 6826187-CN

DATE	MARK	NATURE REVISIONS	MADE	CHK'D	REV'D

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Landscape Architect
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Bainbridge, Wa. 98110
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LANDSCAPE IMPROVEMENTS

SDOT PROJECT NO. SUSIP0000335
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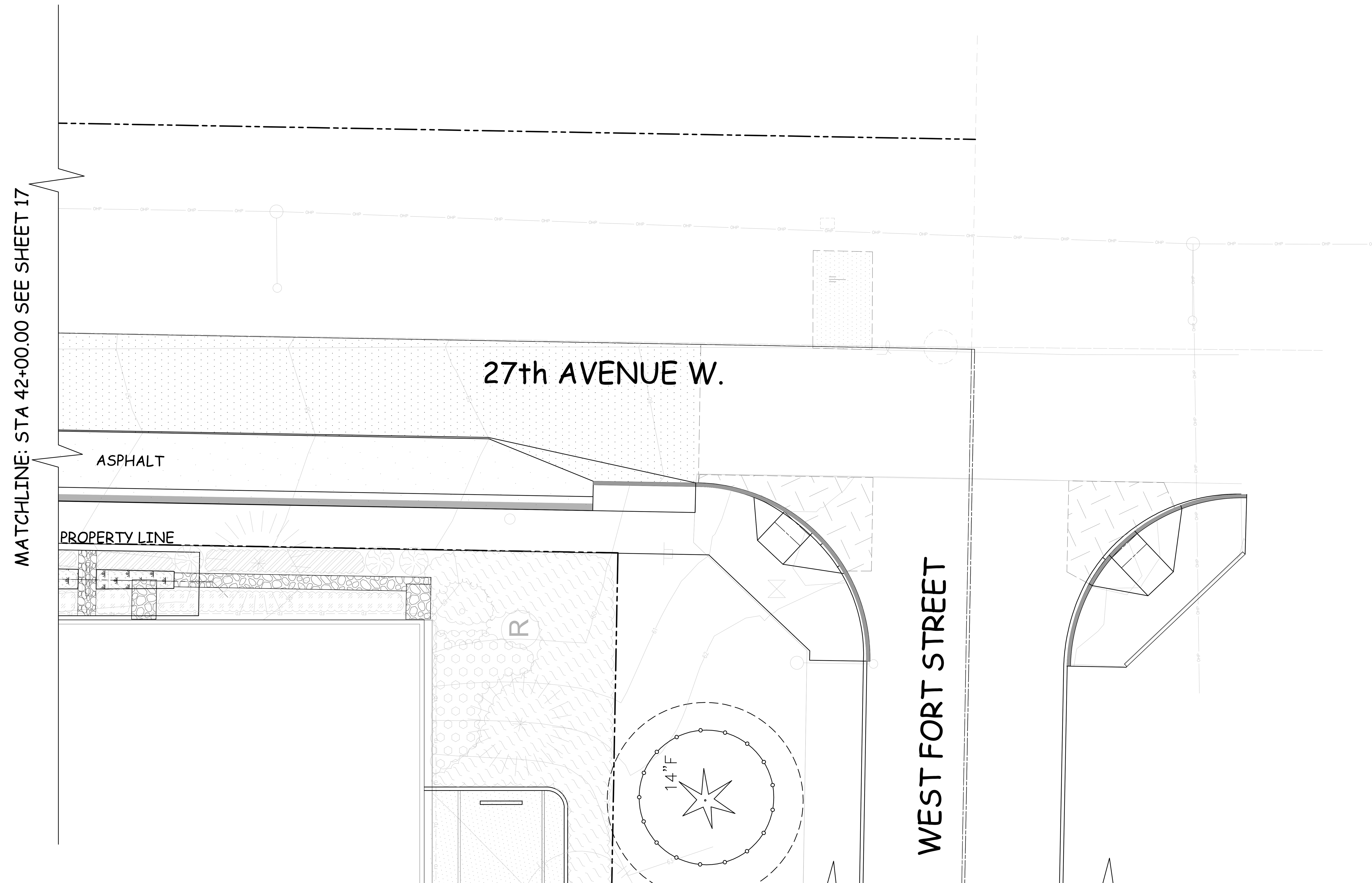
100% Complete Street Improvement Plan



SEE SHEET 19 FOR WEST FORT STREET IMPROVEMENTS

1
18

LANDSCAPE PLAN

SCALE: 1" = 10'-0"

0 10 20
PLAN IN FEET

INSITE SALMON BAY STORAGE – SDCI PROJECT NUMBER: 6826187-CN

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LANDSCAPE IMPROVEMENTS

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VAULT SERIAL NO. 39383
SHEET 18 OF 26

STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT KENNETH LARGE CERTIFICATE #311

Ken Large

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Tom
Feb 23, 2024 – 11:41am

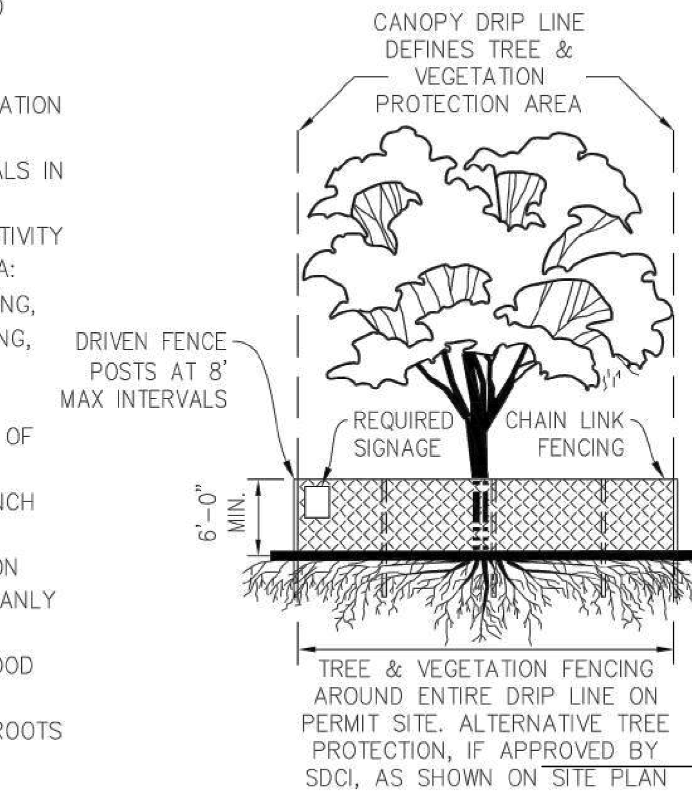
TREE & VEGETATION PROTECTION

TREE PROTECTION FENCING AND SIGN

1. CHAIN LINK FENCE REQUIRED (NO ORANGE CONSTRUCTION FENCE OR PLYWOOD)
2. MINIMUM 6' HIGH
3. FENCE SHALL BE SUPPORTED BY RIGID POSTS DRIVEN INTO THE GROUND AT 8' MAXIMUM INTERVALS
4. MUST BE INSTALLED PRIOR TO DEMOLITION OR GROUND DISTURBANCE
5. KEPT IN PLACE FOR THE DURATION OF CONSTRUCTION
6. NO DUMPING OF ANY MATERIALS IN THE PROTECTION AREA
7. NO SOIL DISTURBANCE OR ACTIVITY ALLOWED WITHIN FENCED AREA: MATERIAL STORAGE/STOCKPILING, PARKING, EXCAVATION, DUMPING, OR WASHING
8. MODIFICATIONS OF THESE REQUIREMENTS BY APPROVAL OF SDCI PLANNER ONLY
9. IF ROOTS GREATER THAN 2 INCH FOUND OUTSIDE OF FENCING, PROTECT BY HAND EXCAVATION AND, IF NECESSARY, CUT CLEANLY AND KEEP MOIST
10. USE 3 INCHES OR DEEPER WOOD CHIP MULCH OUTSIDE FENCED AREAS TO PROTECT FEEDER ROOTS

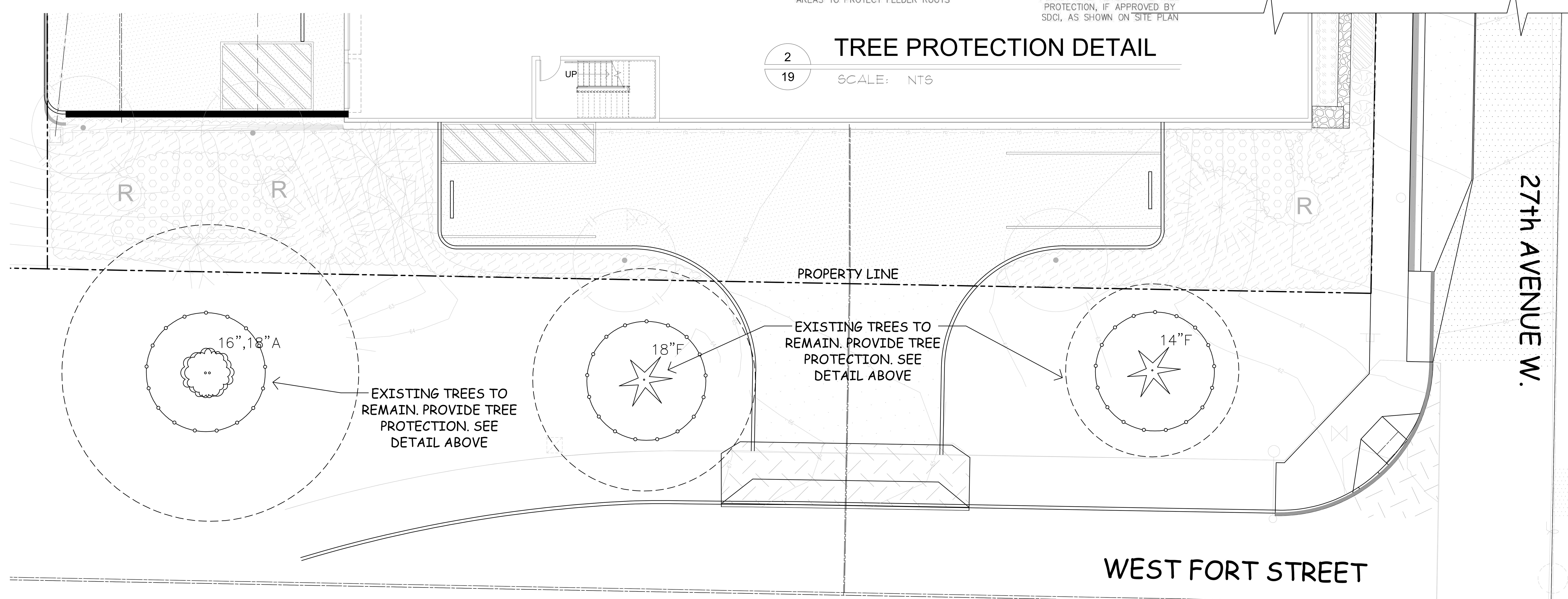
VEGETATION PROTECTION (DOES NOT APPLY TO TREES)

1. ORANGE MESH OR SIMILAR OPEN MATERIAL
2. PROTECT VEGETATION OUTSIDE CONSTRUCTION ZONE WITH FENCING AS SHOWN



2/19 TREE PROTECTION DETAIL

SCALE: NTS



1/19 LANDSCAPE PLAN

SCALE: 1" = 20'-0"

0 10 20
PLAN IN FEET

INSITE SALMON BAY STORAGE – SDCI PROJECT NUMBER: 6826187-CN

DATE	MARK	NATURE REVISIONS	MADE	CHK'D	REV'D

Tom

C:\SkyTech Projects\Ken Large\Salmon Bay\Salmon Bay Landscape Plans.dwg

Feb 23, 2024 – 11:41am

KEN LARGE
Landscape Architect
4823 NE Dotson Loop
Bainbridge, Wa. 98110
Cell: 206-396-7617
E-mail: klla@comcast.net

KLLA LANDSCAPE ARCHITECTS INC.

Call 811 two business days before you dig

APPROVED FOR SDOT PERMITTING

ENGINEER/LA/SURVEYOR	SDOT PROJECT MANAGER
SPU/WATER ENGINEERING	SDOT SUPERVISOR
SPU/DRAINAGE	REVISED AS-BUILT

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS IN EFFECT ON THE DATE SHOWN ABOVE, AND SUPPLEMENTED BY SPECIAL PROVISIONS.

Seattle Department of Transportation

2707 W COMMODORE WAY
CURB, SIDEWALK & LANDSCAPE IMPROVEMENTS
LANDSCAPE IMPROVEMENTS

SDOT PROJECT NO. SUSIP0000335
VAULT PLAN NO. 792-809
VAULT SERIAL NO. 39383

100% Complete Street Improvement Plan

DATUM/BASIS OF BEARINGS

BASIS OF BEARINGS HELD A BEARING OF N88°56'31"W FROM PUNCH IN BRASS DISK ON CONC MON IN ALUMINUM CASE AT THE INTERSECTION OF W. FORT ST. (W. GOVERNMENT WAY) AND 32ND AVE. W., AND A TACK AND WASHER AT THE INTERSECTION OF W. FORT ST. AND 27TH AVE. W.

ORIGINATING BENCHMARK:

NATIONAL GEODETIC SURVEY (NGS) BENCHMARK 944 7130 TIDAL 7 PID SY0289 A DISK SET 3.0 FEET ABOVE THE CONCRETE SIDEWALK IN THE SW GRANITE CORNERSTONE OF THE NATIONAL BUILDING LOCATED ON THE NE CORNER OF THE INTERSECTION OF THE WESTERN AVENUE AND MADISON STREET, SEATTLE, WA

VERTICAL DATUM: NAVD 88
ELEVATION: 19.26'

BM – CITY OF SEATTLE #5166 – FND 2" DOMED BRASS DISK @ INTX BACK OF CONC WALKS @ SE QUAD INTX WILLIAMS AVE W. & GILMAN AVE W. STAMPED "C OF S 5166"
ELEVATION: 90.18'

TBM – A, MAGNETIC NAIL W/CONTROL WASHER, SET IN ASPHALT S. SIDE OF W. COMMODORE WAY, 35'E. BY 35'N. OF THE NE CORNER OF BUILDING #2737
ELEV=45.12

TBM – B, MAGNETIC NAIL W/CONTROL WASHER, SET IN ASPHALT S. SIDE OF W. COMMODORE WAY, 87'W. BY 50'N. OF THE NW CORNER OF BUILDING #2737
ELEV=44.23

EQUIPMENT NOTES

PRIMARY CONTROL POINTS AND ACCESSIBLE MONUMENT POSITIONS WERE FIELD MEASURED UTILIZING GLOBAL POSITIONING SYSTEM (GPS) SURVEY TECHNIQUES USING LEICA SYSTEM 1200 EQUIPMENT. MONUMENT POSITIONS THAT WERE NOT DIRECTLY OBSERVED USING GPS SURVEY TECHNIQUES WERE TIED INTO THE CONTROL POINTS UTILIZING LEICA 1201 & 1103 TOTAL STATIONS FOR THE MEASUREMENT OF BOTH ANGLES AND DISTANCES, AS WELL AS A 3D LASER SCANNING SYSTEM, LEICA SCANSTATION 2, MODEL NUMBER HDS 4050. MEETING OR EXCEEDING STANDARDS SET BY WAC 332-130-080/090.

NOTES

THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

UTILITY LOCATIONS SHOWN HEREON ARE BASED UPON ASBUILT FIELD LOCATION OF EXISTING STRUCTURES BASED ON OBSERVABLE SURFACE EVIDENCE AND AVAILABLE UTILITY MAPS FROM CITY AND UTILITY PURVEYOR'S DRAWINGS. A UTILITY LOCATE SERVICE WAS SUB-CONSULTED. CALL 811 FOR UTILITY LOCATES BEFORE ANY DIGGING OR EXCAVATION ON SITE.

THIS SURVEY DISCLOSES FACTORS OF RECORD AND ON THE GROUND AFFECTING THE SUBJECT PROPERTY BOUNDARY, BUT IT DOES NOT PURPORT TO LEGALLY RESOLVE RELATED PROPERTY LINE DISPUTES. WHERE AMBIGUITIES ARE NOTED, AXIS RECOMMENDS THAT THE OWNER CONSULT WITH LEGAL COUNSEL TO DETERMINE HOW BEST TO INTERPRET THEIR PROPERTY RIGHTS AND ADDRESS ANY POTENTIAL PROPERTY LINE DISPUTES.

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULT OF SURVEYS BETWEEN JANUARY 2009 TO MAY 21, 2012, AUGUST 21, 2018 AND MAY 6, 2019 AND NOVEMBER, 2020 AND ADDITIONALLY DECEMBER 16, 2022 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

ALL DISTANCES SHOWN ARE GROUND DISTANCES UNLESS OTHERWISE NOTED.

AQUATIC LANDS AND BOUNDARIES MAY CHANGE DEPENDING ON NATURAL OR ARTIFICIAL CAUSES. OTHER THAN ENVIRONMENTAL CHANGES, THE BALLARD LOCKS DIRECTLY TO THE WEST HAS A DAILY IMPACT ON WATER LEVELS IN SALMON BAY. THE ORDINARY HIGH WATER MARK WAS LOCATED ON (5/10/2012) AND MAY OR MAY NOT REPRESENT THE ACTUAL LOCATION OF THE LIMIT TITLE.

SURVEY CONTROL POINTS

HORIZONTAL CONTROL:
AVERAGE SCALE FACTOR: 0.99997357527
AVERAGE ELEVATION FACTOR: 1.00000227123
AVERAGE COMBINED GRID FACTOR: 0.99997584644

HORIZONTAL DATUM (NAD 83/91)
OWNER: CITY OF SEATTLE
DESCRIPTION: FND PUNCH IN 3/8" BRASS PIN IN CONC MON IN CASE, DN. 0.95'
LOCATION INTERSECTION OF COMMODORE WAY AND 31ST AVE W.
N=245964.86
E=1255189.74

HORIZONTAL DATUM (NAD 83/91)
OWNER: CITY OF SEATTLE
DESCRIPTION: FND 1/8" BRASS PIN IN CONC MON IN CASE, DN. 1.25', 0.03'N. X 5.23'E. OF INTX.
LOCATION: NEAR INTX. OF COMMODORE WAY AND 29TH AVE. W.
N=245632.09
E=1255633.83

HORIZONTAL DATUM (NAD 83/91)
OWNER: CITY OF SEATTLE
DESCRIPTION: FND MON – STAMPED 'X' IN 2" BRASS DISK "COS 3773-2502 SURVEY"
LOCATION: ±19' S. OF INTX. OF COMMODORE WAY AND 29TH AVE. W.
N=245613.83
E=1255627.57

HORIZONTAL CONTROL

HORIZONTAL DATUM (NAD 83/91)
OWNER: CITY OF SEATTLE
DESCRIPTION: FND 1/8" BRASS PIN IN CONC MON IN CASE, DN. 1.25'
LOCATION: INTERSECTION OF COMMODORE WAY AND 27TH AVE. W.
N=245450.98
E=1256594.55

HORIZONTAL DATUM (NAD 83/91)
OWNER: CITY OF SEATTLE
DESCRIPTION: FND TACK & LS WASHER IN ASPHALT AT INTX.
LOCATION: INTERSECTION OF W. FORT ST. AND 27TH AVE. W.
N=245113.77
E=1256588.59

HORIZONTAL DATUM (NAD 83/91)
OWNER: CITY OF SEATTLE
DESCRIPTION: FND PUNCH IN 3/4" BRASS DISK IN CONC MON IN ALUM CASE, DN. 1.0'
LOCATION: INTERSECTION OF W. FORT ST. AND 32ND AVE. W.
N=245146.48
E=1254817.34

REFERENCES

(R1) RECORD OF SURVEY BY TARGET SURVEYORS INC, REC NO. 9307149007

(R2) RECORD OF SURVEY BY RUSS DODGE SURVEY REC NO. 9707019001

(R3) R.O.S. BY BARGHAUSEN CONSULTING ENG. INC REC. NO. 8403219007

(R4) CITY OF SEATTLE ENGINEERING MAP SE 1/4 SEC 10 T25N R5E

(R5) RECORD OF SURVEY BY ORNI ENTERPRISES REC. NO. 9509279003

(R6) RECORD OF SURVEY BY REID MIDDLETON & ASSOC. REC NO. 7703179001

(R7) RECORD OF SURVEY BY ABA INC. REC NO. 2009070290010

(R8) CITY OF SEATTLE ENGINEERING MAP SW 1/4 SEC 11 T25N R5E

(R9A) OREGON WASHINGTON RAILROAD AND NAVIGATION COMPANY STATION MAP LANDS TRACTS AND STRUCTURES 107-25.A

(R9B) OREGON WASHINGTON RAILROAD AND NAVIGATION COMPANY STATION MAP LANDS TRACTS AND STRUCTURES 107-25.B

(R10) AQ 20-010897

(P1) PLAT OF LAWTON PARK RECORDED IN VOLUME 12 OF PLATS PAGE 56

(P2) SEATTLE TIDE LANDS MAP TF17-204

(L1) DNR WATERWAY USE AUTHORIZATION/LEASE NO. 20-A10919 REC. NO. 9711200892/20090924000249/20130607000412/20180521001023

METRO – BRICK SEWER REHABILITATION PROJECT DATED 12/17/91, WEST POINT SYSTEM DATED APR. 1976

MARK	DATE	NATURE	MADE	CHK'D	REV'D

REVISIONS

PARCEL C: TPN:1125039050

THAT PORTION OF THE EAST 111.04 FEET GOVERNMENT LOT 5, SECTION 11, TOWNSHIP 25 NORTH, RANGE 3 EAST, WILLAMETTE MERIDIAN, IN KING COUNTY, WASHINGTON, LYING SOUTH OF COMMODORE WAY AND NORTH OF A LINE PARALLEL TO AND 180.51 FEET SOUTH OF SAID SOUTH LINE OF COMMODORE WAY, MEASURED ALONG THE EAST LINE OF SAID GOVERNMENT LOT 5;

EXCEPT THAT PORTION THEREOF, IF ANY, LYING WEST OF THE EAST LINE OF BLOCK 5, LAWTON PARK, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 12 OF PLATS, PAGE 56, IN KING COUNTY, WASHINGTON.

PARCEL D: TPN:1125039050

THAT PORTION OF GOVERNMENT LOT 6, SECTION 11, TOWNSHIP 25 NORTH, RANGE 3 EAST, WILLAMETTE MERIDIAN, IN KING COUNTY, WASHINGTON, LYING NORTH OF FORT STREET (FORMERLY GOVERNMENT WAY), WEST OF 27TH AVENUE WEST, AND SOUTH OF COMMODORE WAY;

EXCEPT THE FOLLOWING PORTION:

BEGINNING AT THE SOUTHWEST CORNER OF SAID TRACT;
THENCE NORTH ALONG THE WEST LINE OF SAID LOT 6 A DISTANCE OF 50.40 FEET;
THENCE SOUTHEASTERLY A DISTANCE OF 84.5 FEET TO THE NORTH LINE OF FORT STREET (FORMERLY GOVERNMENT WAY);
THENCE WEST TO THE POINT OF BEGINNING.

PARCEL E: TPN:1125039050

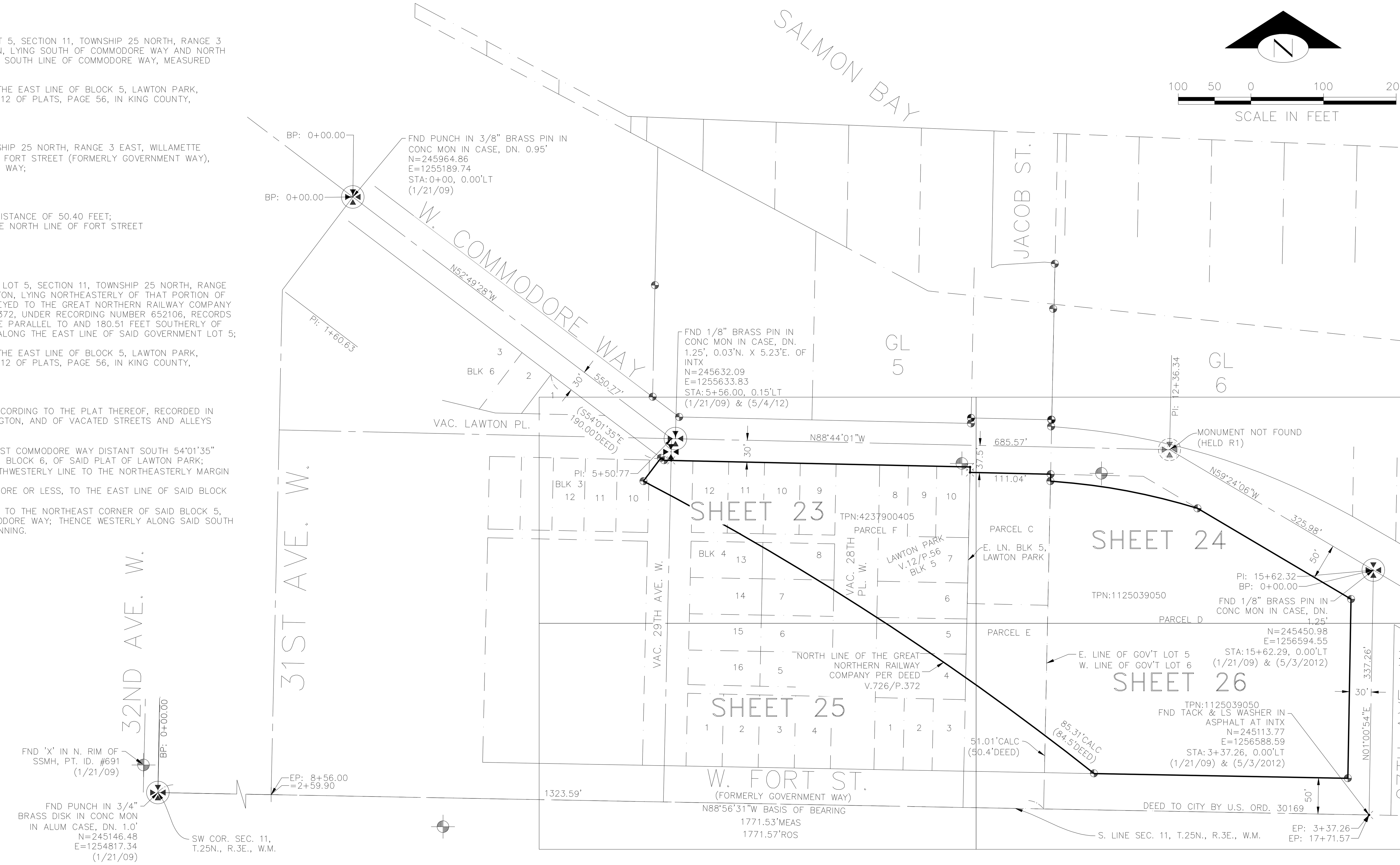
THAT PORTION OF THE EAST 111.04 FEET OF GOVERNMENT LOT 5, SECTION 11, TOWNSHIP 25 NORTH, RANGE 3 EAST, WILLAMETTE MERIDIAN, IN KING COUNTY, WASHINGTON, LYING NORTHEASTERLY OF THAT PORTION OF THE EAST 111.04 FEET OF SAID GOVERNMENT LOT 5 CONVEYED TO THE GREAT NORTHERN RAILWAY COMPANY BY DEED RECORDED IN VOLUME 726 OF DEEDS, AT PAGE 372, UNDER RECORDING NUMBER 652106, RECORDS OF KING COUNTY, WASHINGTON, AND SOUTHERLY OF A LINE PARALLEL TO AND 180.51 FEET SOUTHERLY OF THE SOUTHERLY MARGIN OF COMMODORE WAY MEASURED ALONG THE EAST LINE OF SAID GOVERNMENT LOT 5;

EXCEPT THAT PORTION THEREOF, IF ANY, LYING WEST OF THE EAST LINE OF BLOCK 5, LAWTON PARK, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 12 OF PLATS, PAGE 56, IN KING COUNTY, WASHINGTON.

PARCEL F: TPN:4237900405

THAT PORTION OF BLOCKS 3, 4 AND 5, LAWTON PARK, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 12 OF PLATS, PAGE 56, IN KING COUNTY, WASHINGTON, AND OF VACATED STREETS AND ALLEYS ADJOINING, DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE SOUTHERLY MARGIN OF WEST COMMODORE WAY DISTANT SOUTH 54°01'35" EAST 190 FEET FROM THE NORTHWESTERLY LINE OF LOT 1, BLOCK 6, OF SAID PLAT OF LAWTON PARK;
THENCE SOUTH 35°58'25" WEST, PARALLEL WITH SAID NORTHWESTERLY LINE TO THE NORTHEASTERLY MARGIN OF THE GREAT NORTHERN RAILWAY RIGHT OF WAY;
THENCE SOUTHEASTERLY ALONG SAID MARGIN 500 FEET, MORE OR LESS, TO THE EAST LINE OF SAID BLOCK 5;
THENCE NORTH 00°00'50" WEST 300 FEET, MORE OR LESS, TO THE NORTHEAST CORNER OF SAID BLOCK 5, SAID POINT BEING ON THE SOUTH MARGIN OF WEST COMMODORE WAY; THENCE WESTERLY ALONG SAID SOUTH MARGIN 400 FEET, MORE OR LESS, TO THE POINT OF BEGINNING.



INDEX/VICINITY MAP

Call 811 two business days before you dig

SW 1/4, SW 1/4,
SEC. 11, TWP. 25 N., RGE. 3 E., W.M.
CITY OF SEATTLE, KING COUNTY, WASHINGTON
INSITE SALMON BAY STORAGE – SDCI PROJECT NUMBER: 6826187-CN

BRUCE E. BAILEY, STATE OF WASHINGTON, REGISTERED PROFESSIONAL LAND SURVEYOR 38479

SAM

15241 NE 90th Street, Suite 100
Redmond, WA 98052
Office: 425-823-5700
email: info@sam.biz

APPROVED FOR SDOT PERMITTING

ENGINEER/LA/SURVEYOR	SDOT PROJECT MANAGER
SPU/WATER ENGINEERING	SDOT SUPERVISOR
SPU/DRAINAGE	REVISED AS-BUILT

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Seattle Department of Transportation

WEST COMMODORE WAY & 27TH AVE. W.

TOPOGRAPHIC SURVEY

SDOT PROJECT NO. SUSIP0000335
VAULT PLAN NO. 792-809
VAULT SERIAL NO. 39383

100% Complete Street Improvement Plan

LINE LEGEND

Line	Description
	DITCH LINE
	SANITARY SEWER LINE
	STORM DRAIN LINE
OHP — OHP — OHP	OVERHEAD POWER LINE
	OVERHEAD TELECOMMUNICATIONS LINE
	POWER LINE
	TELECOMMUNICATIONS LINE
OHP — OHP — OHP	OVERHEAD POWER AND TELECOMMUNICATIONS
	FIBER OPTICS LINE
	OVERHEAD FIBER OPTICS LINE
	OVERHEAD FIBER OPTICS, POWER AND TELECOMMUNICATIONS LINE
	STORM AND SANITARY SEWER LINE
	FORCE MAIN SEWER LINE
	WATER LINE
	GAS LINE
	CHAIN LINK FENCE LINE
	WOOD FENCE LINE
	WIRE FENCE LINE
	EXISTING RETAINING WALL

LINE LEGEND CONT.

- BUILDING OVERHANG
- ROOF OVERHANG/EAVE
- EDGE OF WATER
- CENTERLINE
- SECTION LINE
- BOUNDARY
- PROPERTY LINES
- R/W
- EASEMENT
- LANE STRIPING
- LOTS SUBJECT PROPERTY 5
- LOTS ADJOINING PROPERTY 5

STREET NAME

- AS-BUILT CENTERLINE (NO PLOT)
- TOP (NO PLOT)
- TOE (NO PLOT)
- BREAK (NO PLOT)
- CURB

HATCH LEGEND

- CONCRETE PAVING
- ASPHALT PAVING
- HOUSE BOAT/STRUCTURE
- GRAVEL SURFACE
- BRICK PAVING
- ECA STEEP SLOPE
- ECA BUFFER

SYMBOL LEGEND

- SURVEY MONUMENT IN CASE
- SURVEY REBAR/CAP, PIPE/CAP, IRON PIPE
- TACK/LEAD, TACK PK NAIL, SPIKE
- SURVEY BENCHMARK
- CATCH BASIN: V-CB240A
- CATCH BASIN: V-CB241
- CATCH BASIN: V-CB242A
- CLEAN-OUT: V-CO
- MAINTENANCE HOLE: V-MH204A
- MAINTENANCE HOLE: V-MH204B
- MAINTENANCE HOLE: V-MH205A
- CULVERT
- HOSE BIB
- HVAC
- MW MONITOR WELL
- BOLLARD
- PILE
- POST
- SIGN
- GATE VALVE
- FIRE HYDRANT
- EV ELECTRICAL VAULT
- LP LIGHT POLE
- POWER POLE WITH STREET LIGHT
- YARD LIGHT
- UP UTILITY POLE
- GP GUY POLE
- GUY ANCHOR
- NATURAL GAS VALVE
- POWER METER
- W WATER MANHOLE
- WM WATER METER
- CONIFEROUS TREE
- DECIDUOUS TREE

ABBREVIATIONS

AP	ANGLE POINT
ASPH	ASPHALT
BLDG	BUILDING
BLRD	BOLLARD
BM	BENCH MARK
BRKN	BROKEN
CALC	CALCULATION
CB	CATCH BASIN
℄	CENTER LINE
CLF	CHAIN LINK FENCE
CO	CLEAN OUT
CONC	CONCRETE
COR	CORNER
COS	CITY OF SEATTLE
CULV	CULVERT
CW	CONCRETE WALK
DBL	DOUBLE
DI	DUCTILE IRON PIPE
DWY	DRIVEWAY
E	EAST
EOC	END OF CURB
EV	ELECTRICAL VAULT
FC	FACE OF CURB
FND	FOUND
G	GAS
GP	GUY POLE
GV	GATE VALVE
HYD	HYDRANT
IE	INVERT ELEVATION
MB	MAILBOX
MIC	MONUMENT IN CASE
MON	MONUMENT
MW	MONITOR WELL
N	NORTH
NAVD	NORTH AMERICAN VERTICAL DATUM
NO	NUMBER
ℙ	PROPERTY LINE
PS	PIPE SEWER COMBINED
PSD	PIPE SEWER DRAIN
PSS	PIPE SEWER SANITARY
RET WALL	RETAINING WALL
RR	RAILROAD
S	SOUTH
SCL	SEATTLE CITY LIGHT
SD	SERVICE DRAIN
SW	SIDEWALK
TYP	TYPICAL
UP	UTILITY POLE
W	WEST
WCR	WALKWAY CURB RAMP
WM	WATER METER
WV	WATER VALVE

N

20 10 0 20 40

SCALE IN FEET

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Jun 20, 2023 – 2:50pm Toivo,Onni

DATE	MARK	NATURE REVISIONS	MADE	CHK'D	REV'D

BRUCE E. BAILEY STATE OF WASHINGTON 38479 REGISTERED PROFESSIONAL LAND SURVEYOR 6/20/23

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15241 NE 90th Street, Suite 100
Redmond, WA 98052
Office: 425-823-5700
email: info@sam.biz

APPROVED FOR SDOT PERMITTING

ENGINEER/LA/SURVEYOR	SDOT PROJECT MANAGER
SPU/WATER ENGINEERING	SDOT SUPERVISOR
SPU/DRAINAGE	REVISED AS-BUILT

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Seattle Department of Transportation

INSITE SALMON BAY STORAGE – SDCI PROJECT NUMBER: 6826187-CN

WEST COMMODORE WAY & 27TH AVE. W.

TOPOGRAPHIC SURVEY

SDOT PROJECT NO. SUSIP0000335

VAULT PLAN NO. 792–809

VAULT SERIAL NO. 39383

SHEET 21 OF 26

100% Complete Street Improvement Plan

DATE	MARK	NATURE REVISIONS	MADE	CHK'D	REV'D

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Jun 20, 2023 - 2:51pm Toivo,Omi

BRUCE E. BAILEY
STATE OF WASHINGTON
26479
REGISTERED
PROFESSIONAL LAND SURVEYOR
6/20/23

SAM™
15241 NE 90th Street, Suite 100
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100% Complete Street Improvement Plan

SEE SHEET 23

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INSITE SALMON BAY STORAGE – SDCI PROJECT NUMBER: 6826187-CN

REVISIONS				
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BRUCE E. BAILEY, STATE OF WASHINGTON, 36479, REGISTERED PROFESSIONAL LAND SURVEYOR 6/20/23

SAM

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Jun 20, 2023 – 2:51pm Toivo.Ormi

100% Complete Street Improvement Plan

CURVE	DELTA	RADIUS	LENGTH
C1	Δ=00°10'01"	R=1349.97'	L=3.93'
C2	Δ=01°30'00"	R=1063.51'	L=27.84'
C3	Δ=11°28'00"	R=872.54'	L=174.62'

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two business days before you dig

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		REVISIONS			

BRUCE E. BAILEY
STATE OF WASHINGTON
38479
REGISTERED
PROFESSIONAL LAND SURVEYOR
7/26/23

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REV'D	CHK'D	MADE	NATURE REVISIONS	MARK	DATE

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ATTACHMENT 3

King County Wastewater Treatment Industrial Wastewater Discharge Authorization

King County

Wastewater Treatment Division
Industrial Waste Program
Department of Natural Resources and Parks
201 South Jackson Street, Mail Stop KSC-NR-5513
Seattle, WA 98104-3855
206-477-5300
TTY Relay: 711

November 13, 2023

SENT VIA EMAIL ONLY
ELECTRONIC READ RECEIPT REQUESTED

Brian Sorensen
Insite Property Group
2015 Manhattan Beach Blvd.
Redondo Beach, CA 90278
bsorensen@insitepg.com

Issuance of Renewed Wastewater Discharge Authorization No. 1198-02 to Secure Space Storage Salmon Bay Construction Project

Dear Brian Sorensen:

The King County Industrial Waste (KCIW) Program is responsible for regulating industrial wastewater in the region so that it is treated properly before being discharged to the sanitary sewer system. KCIW partners with industries to ensure appropriate discharge limits are followed, which, in turn, protects the County's wastewater conveyance and treatment systems, workers, and water quality.

To this end, KCIW has reviewed the application to discharge construction wastewater to the sanitary sewer system from the Secure Space Storage Salmon Bay Construction Project located at 2707 W. Commodore Way, Seattle, Washington, and has issued the enclosed Minor Discharge Authorization. The enclosed Discharge Authorization No. 1198-02 supersedes and cancels Discharge Authorization No. 1198-01, effective November 15, 2023.

This discharge authorization permits the discharge of limited amounts of construction wastewater into King County's sanitary sewer system in accordance with the effluent limitations and other requirements and conditions set forth in the document and the regulations outlined in King County Code 28.84.060 (enclosed). As long as Secure Space Storage Salmon Bay Construction Project maintains compliance with regulations and does not change the nature and volume of discharge, KCIW will not require application for an industrial wastewater discharge permit, a type of approval that would result in additional requirements, oversight, and increased fees.

To increase the volume of discharge or change the type or quantities of substances discharged, Secure Space Storage Salmon Bay Construction Project must contact KCIW at least 60 days before making these changes.

King County Code 28.84 authorizes a fee for each Minor Discharge Authorization issued by the King County Department of Natural Resources and Parks. The current fee for issuance of a renewed Minor Discharge Authorization is $1,500. King County will send you an invoice for this amount.

For questions about this discharge authorization or wastewater discharge from the construction project, please call 206-263-1227 or email bzelelow@kingcounty.gov. Additional information is available on KCIW's website at www.kingcounty.gov/industrialwaste.

Thank you in advance for your efforts to maintain the integrity of King County's wastewater conveyance and treatment infrastructure, ensure worker safety, and protect water quality in the central Puget Sound region.

Sincerely,

DocuSigned by:
Biniam Zelelow
5DE8FC416D49410...

Biniam Zelelow
Compliance Investigator

Enclosures

cc: Jason Lian, Corstone Contractors LLC, jasonl@corstonellc.com
Seattle Department of Construction and Inspections, sidesewerinfo@seattle.gov

King County

MINOR DISCHARGE AUTHORIZATION
King County Industrial Waste Program
201 S. Jackson Street, Mail Stop KSC-NR-5513
Seattle, WA 98104-3855

NUMBER 1198-02
for

Secure Space Storage Salmon Bay Construction Project

Site address: 2707 W. Commodore Way
Seattle, Washington

Mailing address: 2015 Manhattan Beach Blvd
Redondo Beach, CA 90278

Phone: 575-936-0877

Emergency (24-hour) phone: 425-583-7965

Industry type: Construction Dewatering

Discharge to: West Point Treatment Plant

*Note: This authorization is valid only for the specific discharges shown below:

Discharge process: Wastewater Generated by Construction Dewatering Operation

Pretreatment process: Gravity Settling, Sand Filtration, GAC

Maximum discharge volume: 88,980 gallons per day
Maximum discharge rate: 65 gallons per minute

Effective date: November 15, 2023
Expiration date: May 8, 2024

Permission is hereby granted to discharge construction wastewater from the above-identified site into the King County sewer system in accordance with the effluent limitations and monitoring requirements set forth in this authorization.

If the industrial user wishes to continue to discharge after the expiration date, an application must be filed for re-issuance of this discharge authorization at least 90 days prior to the expiration date. For information concerning this King County Discharge Authorization please call Industrial Waste Compliance Investigator Biniam Zelelow at 206-263-1227.

24-HOUR EMERGENCY NOTIFICATION
West Point Treatment Plant: 206-263-3801
Washington State Department of Ecology: 206-594-0000

I. SPECIAL CONDITIONS

A. In accordance with City of Seattle requirements, discharge point is the 8-inch combined sewer maintenance hole on-site. The contractor shall take the following safety precautions:

1. The discharge from the settling tank to the maintenance hole must be hard-plumbed and fitted with a 90-degree pipe and must extend at least three feet into the maintenance hole.

2. A temporary cover must be placed over the maintenance hole.

3. Temporary fencing must be placed around the maintenance hole to restrict accessibility.

B. For batch sedimentation discharges a minimum 60-minute quiescent settling time must be maintained prior to any discharges. During this settling time, no discharges to or from the sedimentation tank can occur.

C. No later than **November 17, 2023**, the permittee must submit a list of Secure Space Storage Salmon Bay Construction Project and contractor personnel responsible for dewatering activities, including operation and maintenance of the wastewater treatment system and monitoring of the discharge to the sanitary sewer. The list shall include the site contacts' name, title, company, and phone numbers (office and cell).

D. Discharge to the sanitary sewer **shall not begin** until KCIW has conducted a preoperative inspection of the pretreatment facilities and has sent written notification (email is sufficient) to the permittee that discharges may begin.

E. All persons responsible for monitoring the discharge to the sanitary sewer shall review a copy of this authorization.

F. A copy of this authorization shall be on site at all times for review and reference.

G. This authorization grants the discharge of limited amounts of wastewater from the following waste streams in accordance with the discharge authorization application:

1. Contaminated stormwater runoff

2. Excavation dewatering

Wastes or contaminants from sources other than permitted herein shall not be discharged to the sanitary sewer without prior approval from KCIW.

H. The discharge shall not cause hydraulic overloading conditions of the sewerage conveyance system. During periods of peak hydraulic loading KCIW and City of Seattle representatives reserve the authority to request that discharge to the sewer be stopped.

I. This discharge authorization is being issued with the understanding that no known soil or groundwater contamination is present on-site. The authorization holder is responsible for contacting KCIW should site conditions indicate potential for contamination.

J. All wastewater shall be collected and treated in accordance with treatment methods approved by KCIW. Wastewater shall not bypass treatment systems. Modifications to wastewater treatment systems shall not occur without prior approval from KCIW.

K. Totalizing and non-resettable flow meters must be installed on all permitted discharge pipes to the sewer.

L. An accessible sampling spigot must be installed on the discharge pipe from the last treatment unit of the wastewater treatment system. The sample site shall be representative of all industrial waste streams discharged to the sewer from this site. Each sample site shall be accessible to KCIW representatives when discharge to the sewer is occurring.

M. The contractor shall implement erosion control best management practices to minimize the amount of solids discharged to the sanitary sewer system. As a minimum precaution, the wastewater must be pumped to an appropriately sized settling tank(s) prior to entering the sewer system.

N. The permittee shall properly operate and maintain all wastewater treatment units to ensure compliance with established discharge limits. Solids accumulation in tanks used for solids settling shall not exceed 25 percent of the tank's working hydraulic capacity. Each tank's working hydraulic capacity is based on the water column height as measured from the bottom of the tank to either the invert elevation of the tank's outlet pipe (gravity discharges) or discharge pump intake (pumped discharges).

O. Results of all required self-monitoring sampling must be recorded daily. Recorded information for each discharge site must include:

    1. Sample date
    2. Sample time
    3. Sample results
    4. Operator name
    5. Comments (if applicable)

    These records shall be maintained on site and shall be available for review by KCIW personnel during normal business hours.

P. The permittee must establish a sewer account with City of Seattle and provide necessary reports to ensure accurate assessment of sewer charges for all construction dewatering discharge sites associated with this project.

II. SELF-MONITORING REQUIREMENTS

A. The following self-monitoring requirements shall be met for this discharge authorization:

Sample Site No.	Parameter	Sample Type	Frequency
IW1599A	Discharge volume	Daily	In-line flow meter
	Discharge rate	Daily	In-line flow meter
	Settleable solids	Daily	Grab by Imhoff cone
	pH	Daily	Hand-held meter
	Non-polar fats, oils, and greases (HEM)[2]	3 Grabs	Once[1]
	Benzene	Grab	Once[1]
	Ethylebenze	Grab	Once[1]
	Toluene	Grab	Once[1]
	Total Xylenes	Grab	Once[1]
	Hydrogen sulfide	Meter reading	Only if operating criteria are exceeded
	Explosivity	Meter reading	Only if operating criteria are exceeded

[1]The permittee shall collect at least one representative sample for this parameter within the first week of commencement of discharging activities to sewer and report sample results to KCIW as analyzed by a Washington accredited analytical laboratory. Depending on the reported results, KCIW may impose routine sampling and/or additional treatment for any of these parameters.

[2]Total oil using the method of hexane extractable materials (HEM), EPA 1664B.

B. The settleable solids field test by Imhoff cone must be performed as follows:

1. Fill cone to one-liter mark with well-mixed sample
2. Allow 45 minutes to settle
3. Gently stir sides of cone with a rod or by spinning; settle 15 minutes longer
4. Record volume of settleable matter in the cone as ml/L

C. The three nonpolar fats, oils, and grease (FOG) grab samples shall be of equal volume, collected at least five minutes apart, and analyzed separately. When using U.S. Environmental Protection Agency approved protocols specified in 40 CFR Part 136, the individual grab samples may be composited (at the laboratory) prior to analysis. The result of the composite sample or the average of the concentrations of the three grab samples may be reported as Total FOG unless the value is 100 mg/L or greater, in which case the concentration of nonpolar FOG must be reported.

D. If a violation of any discharge limits or operating criteria is detected in monitoring, you shall notify KCIW immediately upon receipt of analytical data.

E. Secure Space Storage Salmon Bay Construction Project shall submit an end-of project self-monitoring report (form enclosed) within 15 days from completion of all construction dewatering activities to the sewer or by **May 23, 2024**, whichever comes first. The report must contain results of required self-monitoring and total volume discharged to the sewer.

F. All self-monitoring data submitted to KCIW, which required a laboratory analysis, must have been performed by a laboratory accredited by the Washington State Department of Ecology for each parameter tested, using procedures approved by 40 CFR 136. This does not apply to field measurements performed by the industrial user such as pH, temperature, flow, atmospheric hydrogen sulfide, total dissolved sulfides, total settleable solids by Imhoff cone, or process control information.

G. All sampling data collected by the permittee, at the point of compliance, and analyzed using procedures approved by 40 CFR 136, or approved alternatives, shall be submitted to KCIW whether required as part of this authorization or done voluntarily by the permittee.

H. Self-monitoring reports shall be signed by an authorized representative of the industrial user. The authorized representative of the industrial user is defined as:

1. The president, secretary, treasurer, or a vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation

2. The manager of one or more manufacturing, production, or operating facilities, but only if the manager:

   a. Is authorized to make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiate and direct other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations

   b. Can ensure that the necessary systems are established or actions taken to gather complete and accurate information for control mechanism requirements and knowledgeable of King County reporting requirements

   c. Has been assigned or delegated the authority to sign documents, in accordance with corporate procedures

3. A general partner or proprietor if the industrial user is a partnership or proprietorship, respectively

4. A director or highest official appointed or designated to oversee the operation and performance of the industry if the industrial user is a government agency

5. The individuals described in one through four above may designate an authorized representative if:

    a. The authorization is submitted to King County in writing.

    b. The authorization specifies the individual or position responsible for the overall operation of the facility from which the discharge originates or having overall responsibility for environmental matters for the company or agency.

III. GENERAL DISCHARGE LIMITATIONS

A. Operating Criteria

There shall be no odor of solvent, gasoline, or hydrogen sulfide (rotten egg odor), oil sheen, unusual color, or visible turbidity. The discharge must remain translucent. If any discharge limits are exceeded, you must stop discharging and notify KCIW at 206-477-5300.

B. Corrosive Substances

Limits

Instantaneous minimum:	pH 5.0 (standard units [s.u.])
Daily minimum:	pH 5.5 (s.u.)
Maximum:	pH 12.0 (s.u.)

The instantaneous minimum pH limit is violated whenever any single grab sample or any instantaneous recording is less than pH 5.0.

The daily minimum pH limit is violated whenever any continuous recording of 15 minutes or longer remains below pH 5.5 or when each pH value of four consecutive grab samples collected at 15-minute intervals or longer within a 24-hour period remains below pH 5.5.

Discharges of caustic solutions greater than pH 12.0 are prohibited unless King County provides prior written authorization. For these situations, the authorized caustic solution discharges above pH 12.0 must be less than pH 12.5 and must not contain an equivalent weight of sodium hydroxide (NaOH) that exceeds a daily loading rate of 21 pounds/day. The authorized discharge of caustic solutions greater than pH 12.0 shall be subject to special conditions to protect worker safety and the POTW.

C. Fats, Oils, and Grease

FOG Accumulations and Obstructions
Discharges of FOG shall not result in significant accumulations which, either alone or in combination with other wastes, are capable of obstructing flow or interfering with the operations or performance of the POTW.

Nonpolar FOG (mineral/petroleum origin)
Nonpolar FOG limit: 100 mg/L

The limit for nonpolar FOG is violated when either:

- The arithmetic mean of the concentration from the individual analyses of three grab samples, taken no more frequently than 5-minute intervals, exceeds the limitation, or
- The concentration of a single composite sample of three grab samples, taken no more frequently than 5-minute intervals, exceeds the limitation.

Industrial users that violate the nonpolar FOG limit may be required to complete, for King County review and approval, a FOG control plan.

Polar FOG (Animal and Vegetable Origin)
Industrial users that have the potential to discharge polar FOG shall minimize free-floating polar FOG. Industrial users must minimize the use of emulsifying agents, such as cleaners or detergents, to only the quantity needed to maintain industrial activities at their facility and to not impact the POTW.

Industrial users may not add emulsifying agents prior to or within FOG-removal devices, exclusively for the purposes of emulsifying free-floating FOG.

Industrial users that discharge free-floating polar FOG will be required to complete, for King County review and approval, a FOG control plan.

King County has the authority to include aqueous concentration-based discharge limits for polar FOG or total FOG (i.e., the sum of polar and nonpolar FOG) in permits and discharge authorizations issued to industrial users that primarily discharge FOG of animal or vegetable origin. The concentration-based limits shall be based on what can be achieved through implementation of a treatment technology that the Wastewater Treatment Division Director determines represents all known, available, and reasonable methods of prevention, control, and treatment.

D. Flammable or Explosive Materials

No person shall discharge any pollutant, as defined in 40 CFR 403.5, that creates a fire or explosion hazard in any sewer or treatment works, including, but not limited to, waste streams with a closed cup flashpoint of less than 140° Fahrenheit or 60° Centigrade using the test methods specified in 40 CFR 261.21.

At no time shall two successive readings on an explosion hazard meter, at the point of discharge into the system (or at any point in the system), be more than 5 percent nor any single reading be more than 10 percent of the lower explosive limit (LEL) of the meter.

Pollutants subject to this prohibition include, but are not limited to, gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides, and sulfides, and any other substances that King County, the fire department, Washington State, or the U.S. Environmental Protection Agency has notified the user are a fire hazard or a hazard to the system.

Screening levels for petroleum compounds are listed in the table below.

Petroleum Compounds	Maximum Concentration ppm (mg/L)
Benzene	0.07
Ethylbenzene	1.7
Toluene	1.4
Total xylenes	2.2

E. Heavy Metals/Cyanide

The industrial user shall not discharge wastes, which exceed the following limitations:

Heavy Metals & Cyanide	Instantaneous Maximum ppm (mg/L)[1]	Daily Average ppm (mg/L)[2]
Arsenic	4.0	1.0
Cadmium	0.6	0.5
Chromium	5.0	2.75
Copper	8.0	3.0
Lead	4.0	2.0
Mercury	0.2	0.1
Nickel	5.0	2.5
Silver	3.0	1.0
Zinc	10.0	5.0
Cyanide	3.0	2.0

[1]The instantaneous maximum is violated whenever the concentration of any sample, including a grab within a series used to calculate daily average concentrations, exceeds the limitation.

[2]The daily average limit is violated: a) for a continuous flow system when a composite sample consisting of four or more consecutive samples collected during a 24-hour period over intervals of 15 minutes or greater exceeds the limitation, or b) for a batch system when any sample exceeds the limitation. A composite sample is defined as at least four grab samples of equal volume taken throughout the processing day from a well-mixed final effluent chamber and analyzed as a single sample.

F. High Temperature

The industrial user shall not discharge material with a temperature in excess of 65° C or 150° F.

G. Hydrogen Sulfide

The following are atmospheric hydrogen sulfide limits as measured at a monitoring location designated by King County:

- Short-Term Limit: 15.0 parts per million volume (ppmv) as a 15-minute average
- 8-Hour Limit: 10.0 ppmv as an 8-hour average

- Weekly Limit: 3.0 ppmv as a 7-day average

More stringent weekly atmospheric hydrogen sulfide limits may be developed and imposed on a case-by-case basis depending on nuisance conditions or risks to workers and sewer infrastructure.

Aqueous soluble sulfide limits may be established on a case-by-case basis depending on the volume of discharge and conditions in the receiving sewer, including oxygen content, pH, and existing sulfide concentrations.

H. Organic Compounds

No person shall discharge any organic pollutants that result in the presence of toxic gases, vapors, or fumes within a public or private sewer or treatment works in a quantity that may cause acute worker health and safety problems. Organic pollutants subject to this restriction include, but are not limited to, the following:

- Any organic compound listed in the “Total Toxic Organics (TTO)” definition provided in 40 CFR Section 433.11(e) and 40 CFR Section 413.02(i)
- Acetone, 2-butanone (MEK), 4-methyl-2-pentanone (MIBK), xylenes

Industrial users are required to implement source control strategies and best management practices to minimize the concentration of any of the aforementioned organic pollutants.

I. Settleable Solids

Settleable solids concentrations: 7.0 ml/L

IV. GENERAL CONDITIONS

A. All requirements of King County Code pertaining to the discharge of wastes into the municipal sewer system are hereby made a condition of this discharge authorization.

B. All pretreatment systems used to bring the permittee's discharge into compliance with King County's discharge limitations and all compliance monitoring equipment shall be maintained continuously in satisfactory and effective operations by the permittee at the permittee's expense and shall be subject to periodic inspections by authorized KCIW personnel. These systems shall be attended at all times during discharge to the King County sewerage system. In the event that such equipment fails, the permittee must notify KCIW immediately and take spill prevention precautions.

C. The industrial discharger shall implement measures to prevent accidental spills or discharges of prohibited substances to the municipal sewer system. Such measures include, but are not limited to, secondary containment of chemicals and wastes, elimination of connections to the municipal sewer system, and spill response equipment.

D. Any facility changes, which will result in a change in the character or volume of the pollutants discharged to the municipal sewer system, must be reported to your KCIW representative. Any changes that will cause the violation of the effluent limitations specified herein will not be allowed.

E. In the event the permittee is unable to comply with any of the conditions of this discharge authorization because of breakdown of equipment or facilities, an accident caused by human error, negligence, or any other cause, such as an act of nature the company shall:

1. Take immediate action to stop, contain, and clean up the unauthorized discharges and correct the problem.

2. Immediately notify KCIW and, if after 5 p.m. weekdays and on weekends, call the emergency King County treatment plant phone number on Page 1 so steps can be taken to prevent damage to the sewer system.

3. For discharge violations, collect a sample and submit new data to KCIW within 14 days of becoming aware of the violation.

4. Submit a written report within 14 days of the event (*14-Day Report*) describing the breakdown, the actual quantity and quality of resulting waste discharged, corrective action taken, and the steps taken to prevent recurrence.

F. Compliance with these requirements does not relieve the permittee from responsibility to maintain continuous compliance with the conditions of the discharge authorization or the resulting liability for failure to comply.

G. The permittee shall, at all reasonable times, allow authorized representatives of KCIW to enter that portion of the premises where an effluent source or disposal system is located or in which any records are required to be kept under the terms and conditions of this authorization.

H. Nothing in this discharge authorization shall be construed as excusing the permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations including discharge into waters of the state. Any such discharge is subject to regulation and enforcement action by the Washington State Department of Ecology.

I. This discharge authorization does not authorize discharge after its expiration date. If the permittee wishes to continue to discharge after the expiration date, an application must be filed for reissuance of this discharge authorization at least 90 days prior to the expiration date. If the permittee submits its reapplication in the time specified herein, the permittee shall be deemed to have an effective wastewater discharge authorization until KCIW issues or denies the new wastewater discharge authorization. If the permittee fails to file its reapplication in the time period specified herein, the permittee will be deemed to be discharging without authorization.

DocuSigned by:

Compliance Investigator: Biniam Zelelow Date: 11/13/2023

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Biniam Zelelow

King County

Industrial Waste Program Self-Monitoring Report

Send to: King County Industrial Waste Program at info.KCIW@kingcounty.gov

Project Name: Secure Space Storage Salmon Bay Construction Project **Authorization No.:** 1198-02

Project Location: 2707 W. Commodore Way, Seattle

Sample Date	pH (s.u.)		Settleable Solids (mL/L)	Nonpolar FOG (mg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Total Xylenes (µg/L)		Discharge Volume (gallons)	Name or initials of person collecting and recording samples and volume each day. If permitted for relief only, explain why you did not discharge to surface water for each day of discharge.
	Min.	Max.									
Total Discharge Volume:											

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent

Date

The authorization holder is responsible for monitoring the discharge in accordance with the monitoring requirements specified in King County Discharge Authorization No. 1198-02. This report form must be completed, signed, and submitted to KCIW within 15 days from completion of all construction dewatering activities to the sewer or by **May 23, 2024**, whichever comes first.

Your King County Industrial Waste Program Contact: Biniam Zelelow, 206-263-1227

ATTACHMENT 4

Laboratory and Testing Reports for Lot F Construction

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

November 27, 2023

Jamie Stevens, Project Manager
Crete Consulting
16300 Christensen Road, Suite 214
Tukwila, WA 98188

Dear Ms Stevens:

Included are the results from the testing of material submitted on November 17, 2023 from the TOCST 1 InSite, F&BI 311288 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Rusty Jones
CTC1127R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on November 17, 2023 by Friedman & Bruya, Inc. from the Crete Consulting TOCST 1 InSite, F&BI 311288 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Crete Consulting
311288 -01	SW-231117-1
311288 -02	SW-231117-2
311288 -03	SW-231117-3

All quality control requirements were acceptable.

Date of Report: 11/27/23
Date Received: 11/17/23
Project: TOCST 1 InSite, F&BI 311288
Date Extracted: 11/20/23
Date Analyzed: 11/21/23

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES USING EPA METHOD 8021B

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Surrogate (% Recovery) Limit (50-150)
SW-231117-2 311288-02	<1	<1	<1	<3	80
Method Blank 03-2510 MB	<1	<1	<1	<3	82

Date of Report: 11/27/23
Date Received: 11/17/23
Project: TOCST 1 InSite, F&BI 311288
Date Extracted: 11/17/23
Date Analyzed: 11/17/23

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR pH USING EPA METHOD 150.2

Sample ID Laboratory ID	pH
SW-231117-2 311288-02	9.4

Date of Report: 11/27/23
Date Received: 11/17/23
Project: TOCST 1 InSite, F&BI 311288
Date Extracted: 11/20/23
Date Analyzed: 11/21/23

RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR OIL AND GREASE USING EPA METHOD 1664
Results Reported as mg/L (ppm)

Sample ID Laboratory ID	Oil and Grease
SW-231117-1 311288-01	<3
SW-231117-2 311288-02	<3
SW-231117-3 311288-03	<3
Method Blank	<3

Date of Report: 11/27/23
Date Received: 11/17/23
Project: TOCST 1 InSite, F&BI 311288

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES USING EPA METHOD 8021B

Laboratory Code: 311288-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	98	70-130
Toluene	ug/L (ppb)	50	96	70-130
Ethylbenzene	ug/L (ppb)	50	98	70-130
Xylenes	ug/L (ppb)	150	100	70-130

Date of Report: 11/27/23
Date Received: 11/17/23
Project: TOCST 1 InSite, F&BI 311288

QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF WATER SAMPLES
FOR pH BY METHOD 150.2

Laboratory Code: 311288-02 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
pH	9.4	9.4	0	0-20

Date of Report: 11/27/23
Date Received: 11/17/23
Project: TOCST 1 InSite, F&BI 311288

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR OIL AND GREASE USING EPA METHOD 1664

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 11)
Oil and Grease	mg/L (ppm)	40	96	89	78-114	7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k – The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

311288

SAMPLE CHAIN OF CUSTODY

11/17/23 C4/VW1/K1

Page # 1 of 1

Report To Stevens, Jones

Company CRETE Consulting

Address

City, State, ZIP

Phone 832,330.1354 Email

SAMPLERS (*signature*) Rusty Jones R. Jones

PROJECT NAME TOCST 1 InSite

PO # InSite

REMARKS

INVOICE TO CRETE

Project specific RLs? - Yes / No

TURNAROUND TIME
☐ Standard turnaround
☒ RUSH 5 day
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Archive samples
☐ Other
Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	FOG	BTEX	pH		Notes
SW-231117-1	01			Water	1								X				
SW-231117-2	02 A-F			↓	6								X	X	X		Hold Metals
SW-231117-3	03			↓	1								X				

Samples received at 4 °C

Friedman & Bruya, Inc.
Ph. (206) 285-8282

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	R. Jones	Rusty Jones	CRETE	11.17.2023	1138
Received by:	[illegible]	ANHPHAN	F&B	11/17/23	11:38
Relinquished by:					
Received by:					

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

April 10, 2024

Rusty Jones, Project Manager
Crete Consulting
16300 Christensen Road, Suite 214
Tukwila, WA 98188

Dear Mr Jones:

Included are the results from the testing of material submitted on April 3, 2024 from the TOCST1 InSite Secure Storage, F&BI 404053 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Jamie Stevens
CTC0410R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 3, 2024 by Friedman & Bruya, Inc. from the Crete Consulting TOCST1 InSite Secure Storage, F&BI 404053 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Crete Consulting
404053 -01	LOC1
404053 -02	LOC2
404053 -03	LOC3
404053 -04	LOC4

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/10/24
Date Received: 04/03/24
Project: TOCST1 InSite Secure Storage, F&BI 404053
Date Extracted: 04/04/24
Date Analyzed: 04/04/24

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
LOC1 404053-01	<5	100
LOC2 404053-02	<5	100
LOC3 404053-03	<5	96
LOC4 404053-04	<5	101
Method Blank 04-637 MB	<5	101

Date of Report: 04/10/24
Date Received: 04/03/24
Project: TOCST1 InSite Secure Storage, F&BI 404053
Date Extracted: 04/03/24
Date Analyzed: 04/03/24

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 50-150)
LOC1 404053-01	<50	<250	98
LOC2 404053-02	<50	<250	95
LOC3 404053-03	<50	<250	97
LOC4 404053-04	<50	<250	98
Method Blank 04-759 MB	<50	<250	98

Date of Report: 04/10/24
Date Received: 04/03/24
Project: TOCST1 InSite Secure Storage, F&BI 404053

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 404053-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	40	105	70-130

Date of Report: 04/10/24
Date Received: 04/03/24
Project: TOCST1 InSite Secure Storage, F&BI 404053

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 403380-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	102	110	64-136	8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	98	78-121

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k – The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

404053

SAMPLE CHAIN OF CUSTODY 04/03/24 A1/VSA2

Report To Jones, Stevens

Company CRETE Consulting Inc

Address

City, State, ZIP

Phone 832.330.1359 Email

SAMPLERS (*signature*) Rusty Jones R. Jones

PROJECT NAME	PO #
TOCST1 InSite Secure Storage	TOCST1 InSite
REMARKS Project specific RLs? - Yes / No	INVOICE TO CRETE

Page # 1 of 1

TURNAROUND TIME
- ☐ Standard turnaround
- ☒ RUSH 3-day
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Archive samples
- ☐ Other
- Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TCE	Arsenic	Benzene		Notes
LOC1	01 A-I	4/3/2024	0820	SOIL	9	X	X										HOLD ALL SAMPLES
LOC2	02	↓	0845	↓	9	X	X										FOR TCE, Benzene,
LOC3	03	↓	0905	↓	9	X	X										Arsenic
LOC4	04	↓	0930	↓	9	X	X										↓

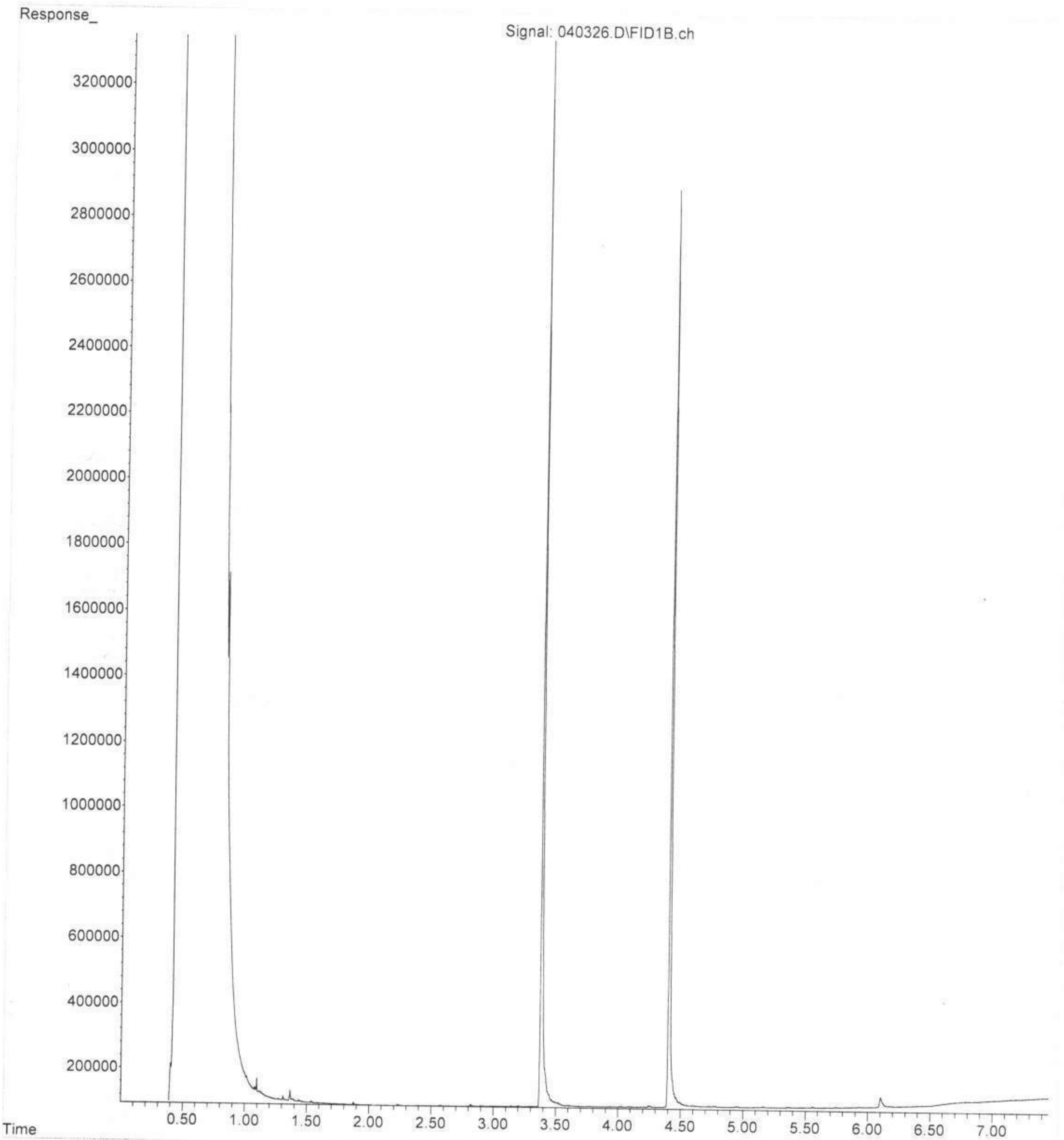
Samples received at 0 °C

Friedman & Bruya, Inc.
Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: R. Jones	Rusty Jones	CRETE	4.3.2024	1322
Received by: [signature]	Michael Erdahl	F&B Inc	4/3/24	1322
Relinquished by:				
Received by:				

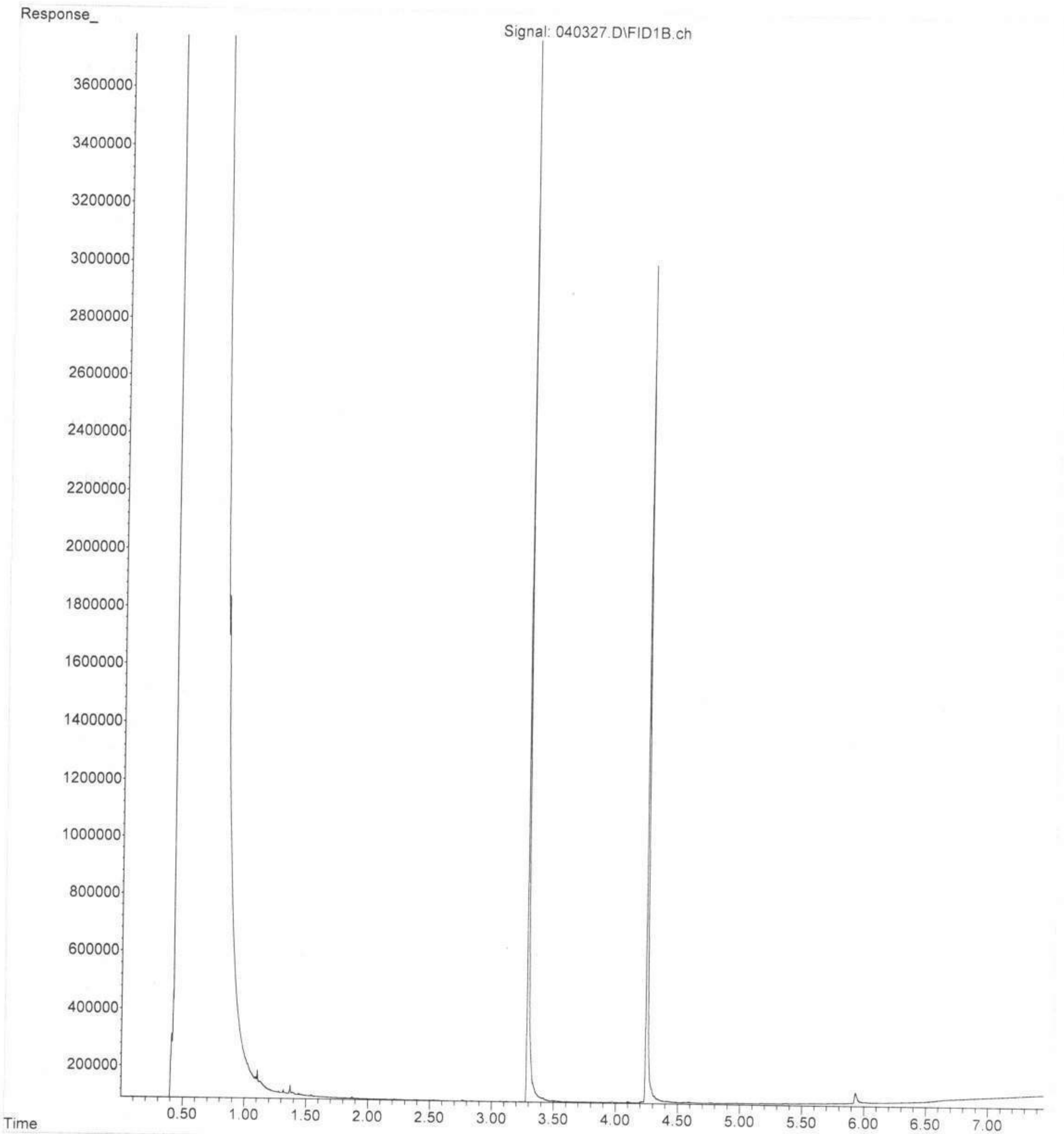
File   :P:\Proc_GC13\04-03-24\040326.D
Operator   : TL
Acquired   : 03 Apr 2024 02:42 pm using AcqMethod Dx.M
Instrument :   GC13
Sample Name: 404053-01
Misc Info   :
Vial Number: 26

ERR

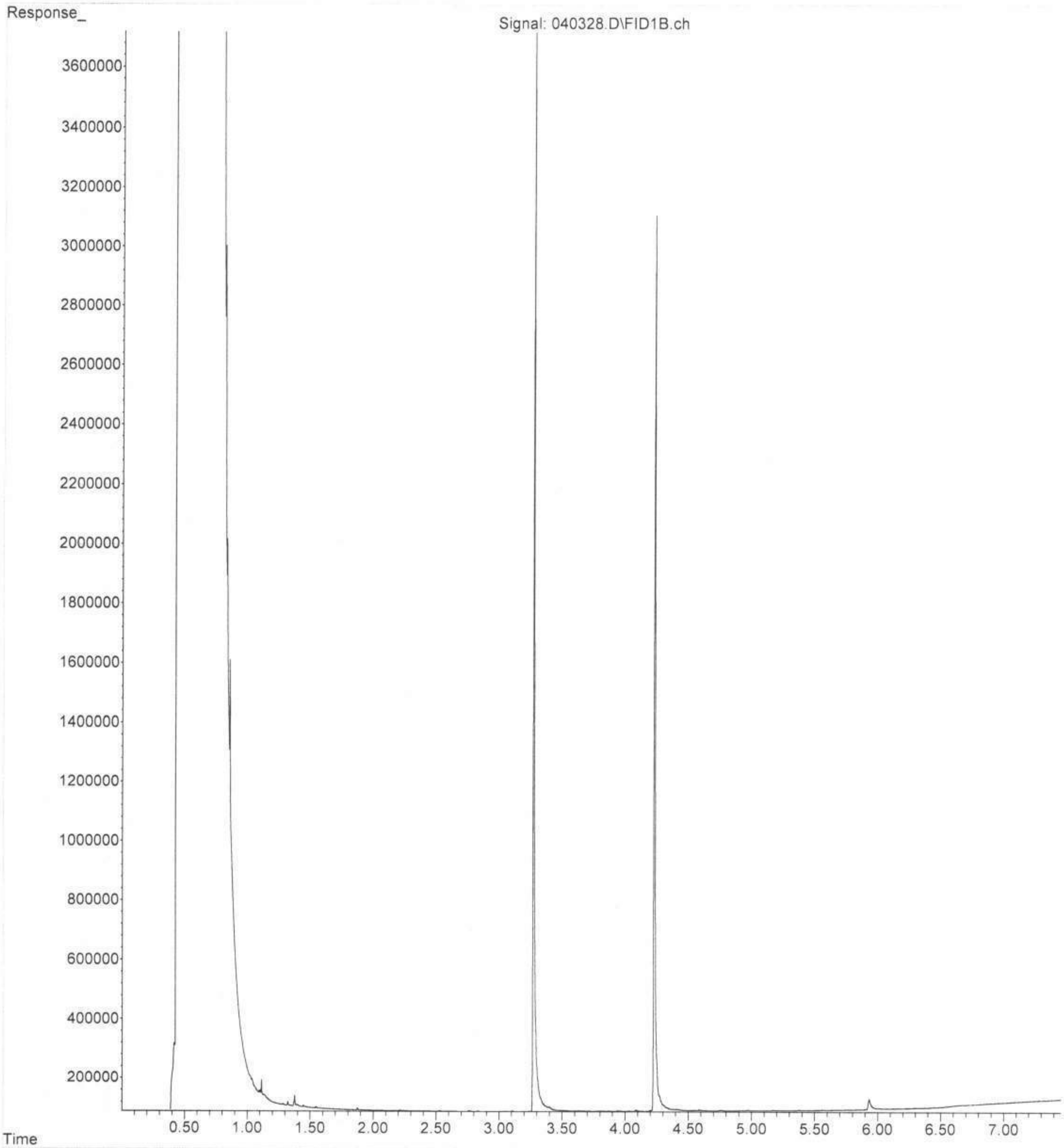


File :P:\Proc_GC13\04-03-24\040327.D
Operator : TL
Acquired : 03 Apr 2024 02:53 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 404053-02
Misc Info :
Vial Number: 27

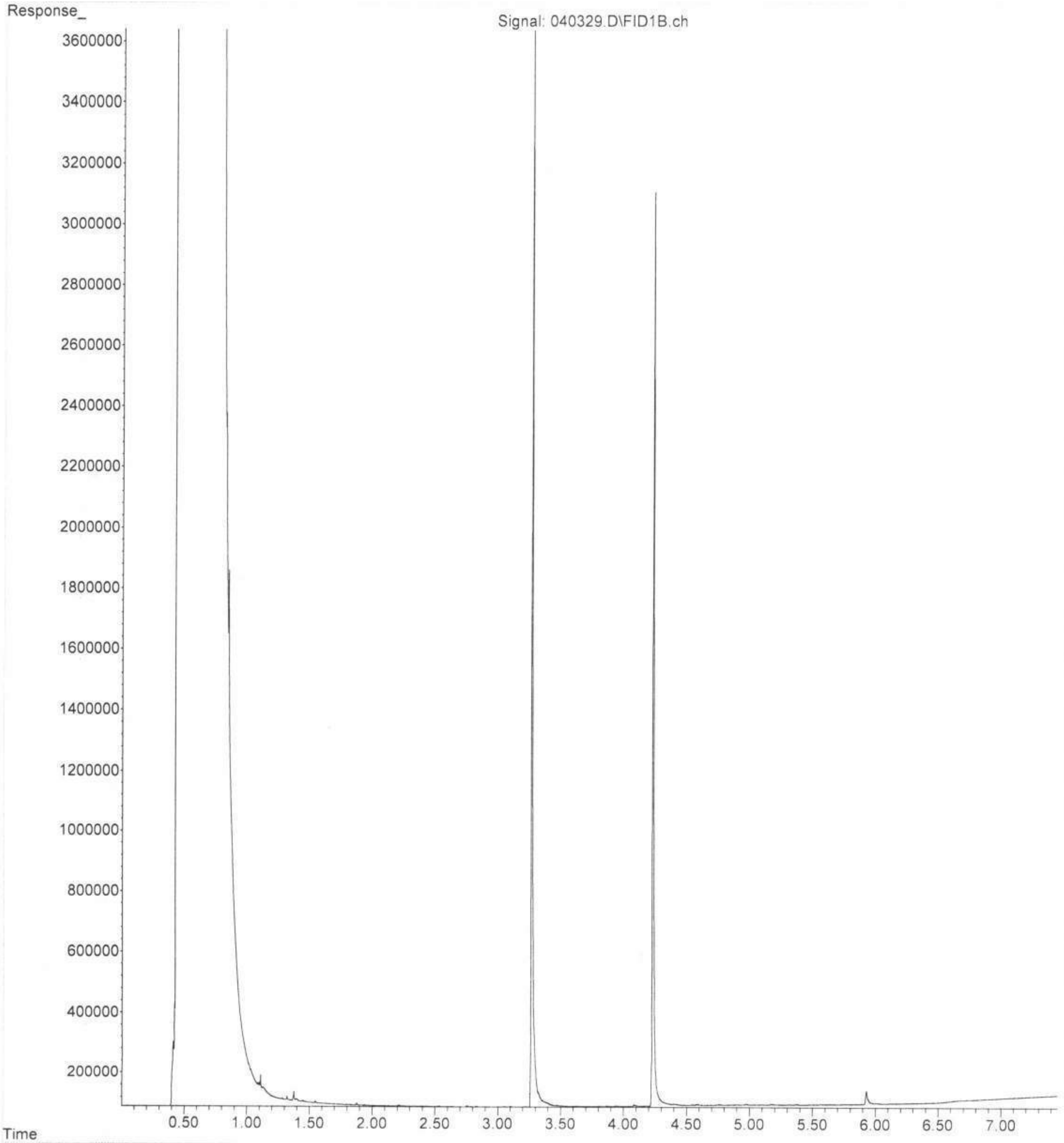
ERR



File :P:\Proc_GC13\04-03-24\040328.D
Operator : TL
Acquired : 03 Apr 2024 03:05 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 404053-03
Misc Info : ERR
Vial Number: 28

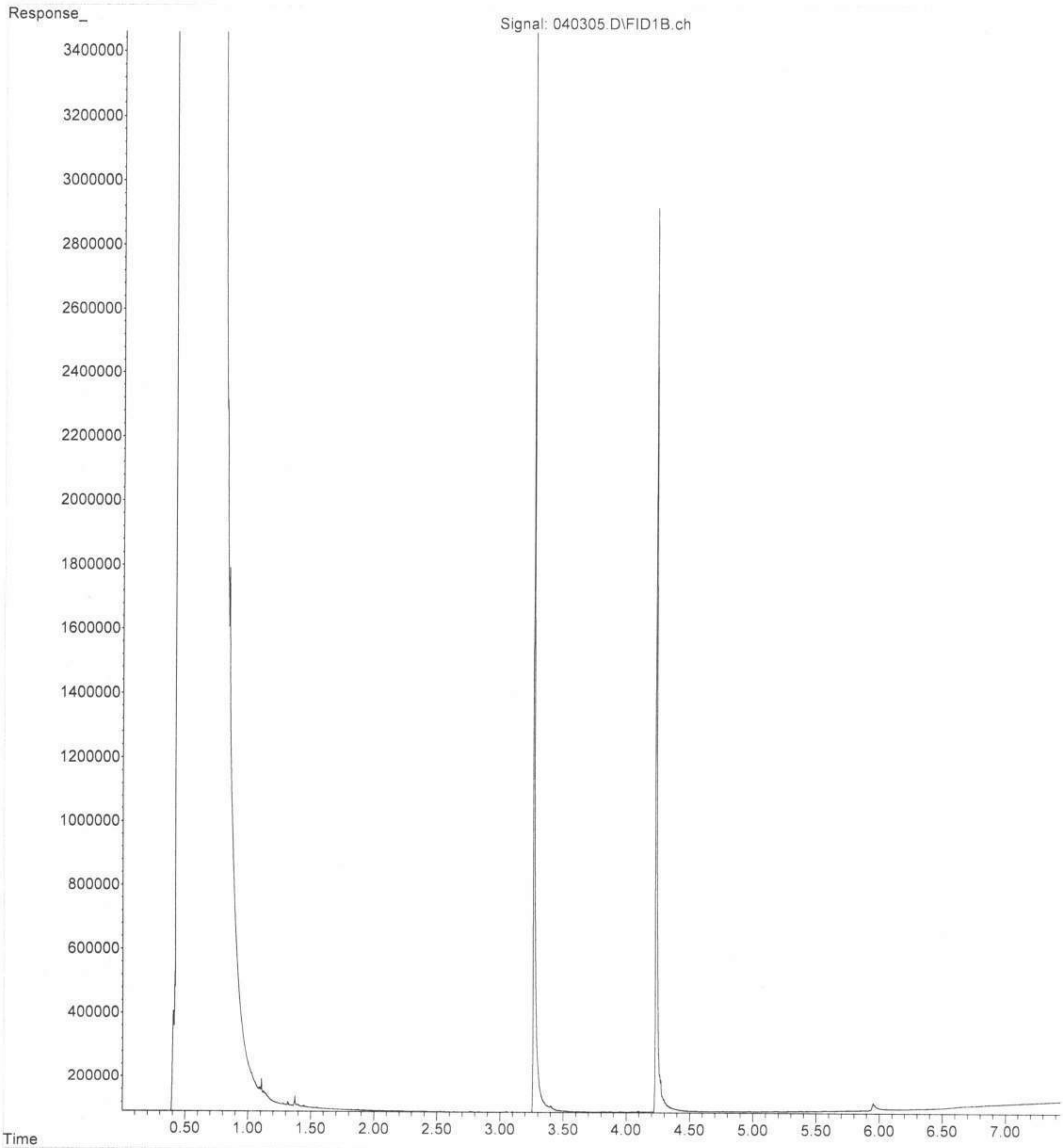


File   :P:\Proc_GC13\04-03-24\040329.D
Operator   : TL
Acquired   : 03 Apr 2024 03:16 pm using AcqMethod Dx.M
Instrument :   GC13
Sample Name: 404053-04
Misc Info :   ERR
Vial Number: 29



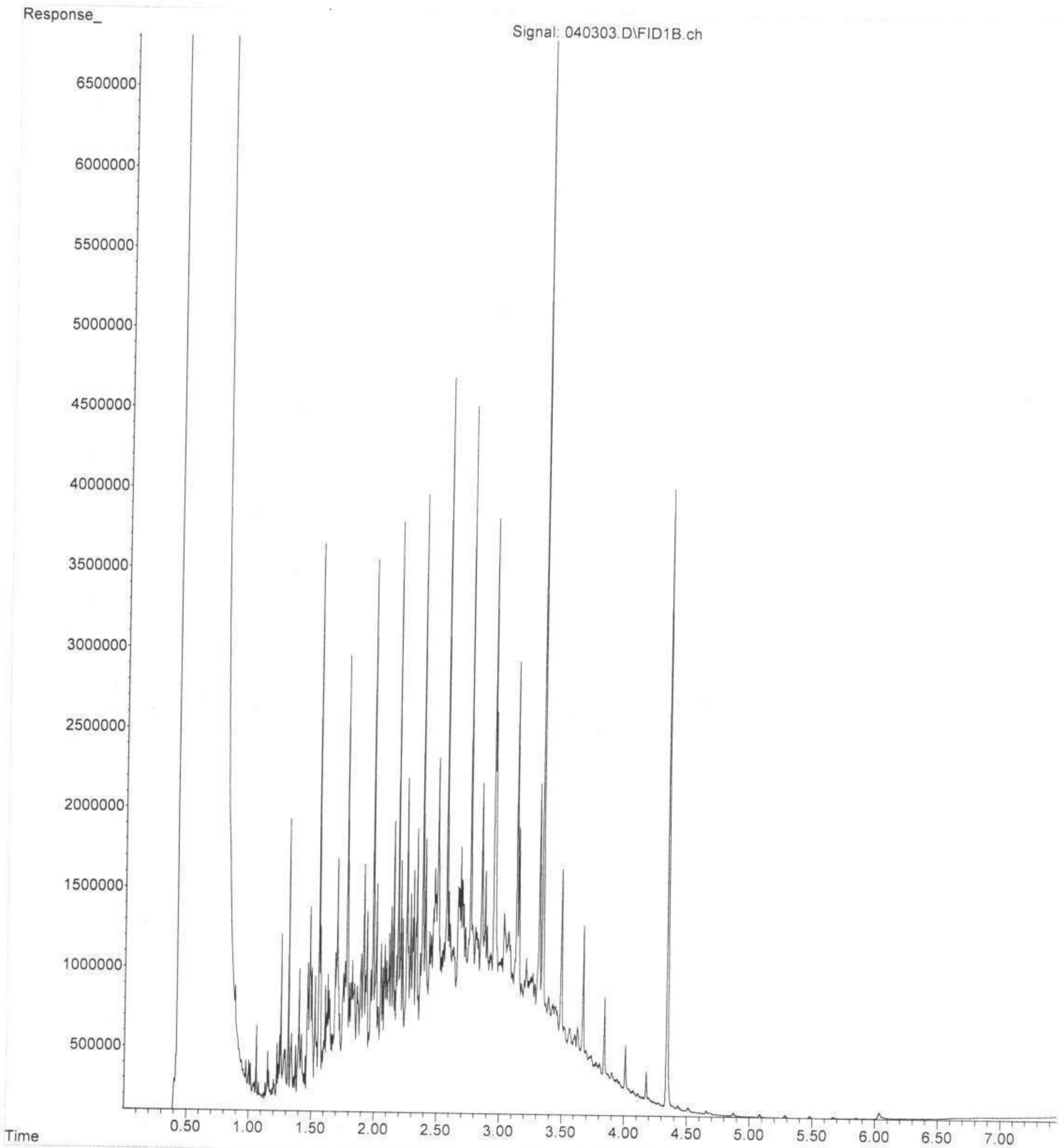
```
File        :P:\Proc_GC13\04-03-24\040305.D
Operator    : TL
Acquired    : 03 Apr 2024  09:34 am using AcqMethod Dx.M
Instrument :   GC13
Sample Name: 04-759 mb
Misc Info  :
Vial Number: 7
```

ERR



File   :P:\Proc_GC13\04-03-24\040303.D
Operator   : TL
Acquired   : 03 Apr 2024 08:08 am using AcqMethod Dx.M
Instrument :   GC13
Sample Name: 500 Dx 71-40G
Misc Info :
Vial Number: 3

ERR



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

December 16, 2024

Jamie Stevens, Project Manager
Crete Consulting
16300 Christensen Road, Suite 214
Tukwila, WA 98188

Dear Ms Stevens:

Included are the results from the testing of material submitted on December 10, 2024 from the TOCST1 InSite Secure Space INSITE, F&BI 412153 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Rusty Jones, Grant Hainsworth, Ben Starr, Jamie Stevens
CTC1216R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 10, 2024 by Friedman & Bruya, Inc. from the Crete Consulting TOCST1 InSite Secure Space INSITE, F&BI 412153 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Crete Consulting
412153 -01	SSC-121024

The 6020B calibration standard exceeded the acceptance criteria for cadmium, selenium, and silver. The metals were not detected, therefore this did not represent an out of control condition, and the results are not considered estimates.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	SSC-121024	Client:	Crete Consulting
Date Received:	12/10/24	Project:	TOCST1 InSite Secure Space
Date Extracted:	12/11/24	Lab ID:	412153-01
Date Analyzed:	12/11/24	Data File:	412153-01.184
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Barium	74
Cadmium	<1 k
Chromium	19
Copper	16
Lead	8.2
Mercury	<1
Selenium	<1 k
Silver	<1 k

Analysis For Total Metals By EPA Method 6020B

Client ID:	SSC-121024	Client:	Crete Consulting
Date Received:	12/10/24	Project:	TOCST1 InSite Secure Space
Date Extracted:	12/11/24	Lab ID:	412153-01
Date Analyzed:	12/12/24	Data File:	412153-01.221
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	3.4

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Crete Consulting
Date Received:	Not Applicable	Project:	TOCST1 InSite Secure Space
Date Extracted:	12/11/24	Lab ID:	I4-1066 mb2
Date Analyzed:	12/11/24	Data File:	I4-1066 mb2.160
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Copper	<5
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

Date of Report: 12/16/24
Date Received: 12/10/24
Project: TOCST1 InSite Secure Space INSITE, F&BI 412153

QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	98	95	80-120	3
Barium	mg/kg (ppm)	10	96	94	80-120	2
Cadmium	mg/kg (ppm)	10	101	100	80-120	1
Chromium	mg/kg (ppm)	10	104	101	80-120	3
Copper	mg/kg (ppm)	10	97	95	80-120	2
Lead	mg/kg (ppm)	10	98	95	80-120	3
Mercury	mg/kg (ppm)	10	96	96	80-120	0
Selenium	mg/kg (ppm)	10	97	94	80-120	3
Silver	mg/kg (ppm)	10	102	99	80-120	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported between the method detection limit and the lowest calibration point. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k – The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

412153 [redacted]

SAMPLE CHAIN OF CUSTODY

ME 12-10-24 [redacted]

Page # 1 of 1 VSC-1

Report To J. Stevens, R. Jones

Company CRETE Consulting

Address

City, State, ZIP

Phone 832.330.1359 Email

SAMPLERS (signature) Rusty Jones R. Jones		TURNAROUND TIME
PROJECT NAME TOCSTI InSite Secure Space	PO # INSITE	☐ Standard turnaround ☒ RUSH 3-Day Rush charges authorized by: N1
REMARKS Hold additional volumes for possible other analyses Project specific RLs? - Yes / No	INVOICE TO CRETE	SAMPLE DISPOSAL ☐ Archive samples ☐ Other Default: Dispose after 30 days

						ANALYSES REQUESTED											
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	RCRA Metals, Cu				Notes
SSC-121024	01 A-J	12/10/2024	1005	SOIL COMPOSITE	10								X				RCRA Metals + Cu

Samples received at 4 °C

Friedman & Bruya, Inc.
5500 4th Ave S.
Seattle WA 98108
(206) 285-8282
office@friedmanandbruya.com

SIGNATURE		PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	R. Jones	Rusty Jones	CRETE	12/10/2024	1116
Received by:	AP	Anh Phan	FBI	12/10/24	11:16
Relinquished by:					
Received by:					

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 412153 CLIENT Crete INITIALS/ AP DATE: 12/10/24

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature 4 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?
☒ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/ EWB Date: 12/10
*or other representative documents, letters, and/or shipping memos

Number of days samples have been sitting prior to receipt at laboratory 0 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☒ NA ☐ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☒ Yes	☐ No		☐ Not on COC/label
Date Sampled	☒ Yes	☐ No		☐ Not on COC/label
Time Sampled	☒ Yes	☐ No		☐ Not on COC/label
# of Containers	☒ Yes	☐ No		
Relinquished	☒ Yes	☐ No		
Requested analysis	☒ Yes	☐ On Hold		

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☐ NA ☐ YES ☐ NO

Number of unused TO15 canisters ______ Number of unused TO17 tubes ______

Corstone Contractors LLC
1910 Bickford Ave, Suite A
Snohomish, Washington 98290
P: (360) 862-8316
F: (360) 568-2085

Project: 3629.01.568 Seattle WA Secure Space Salmon Bay
2707 W. Commodore Way
Seattle, Washington 98199

Submittal #37.1 - Documentation of records - Crete Environmental

Revision	1	**Submittal Manager**	Charu Ghadge (Corstone Contractors LLC)
Status	Open	**Date Created**	Jun 24, 2024
Issue Date	Jun 24, 2024	**Spec Section**	
Responsible Contractor	Lakeridge Paving Co., LLC	**Received From**	Kyle Pierce (Lakeridge Paving Co., LLC)
Received Date	Jul 8, 2024	**Submit By**	Jul 9, 2024
Final Due Date	Aug 7, 2024	**Lead Time**	
		Cost Code	
Location		**Type**	Product Information

Approvers Aaron Walters (Corstone Contractors LLC), Jason Lian (Corstone Contractors LLC), Casey Kispert (Jackson Main Architecture)

Ball in Court Casey Kispert (Jackson Main Architecture)

Distribution Aaron Walters (Corstone Contractors LLC), Anne Judkis (Jackson Main Architecture), Casey Kispert (Jackson Main Architecture), Charu Ghadge (Corstone Contractors LLC), Jason Lian (Corstone Contractors LLC), Krista Bentley (Corstone Contractors LLC), Kyle Pierce (Lakeridge Paving Co., LLC)

Description

Attached please find documentation for records, as requested.
Attachments include:
1. Corstone Letter 6.17.24
2. Rev lab report.

Do let us know if there are questions.
Thankyou.

Submittal Workflow

Name	Sent Date	Due Date	Returned Date	Response	Attachments
General Information Attachments					Corstone Letter 6.17.24.pdf S240530.1 Secure Space Salmon Bay Revised Lab Report 070224.pdf
Aaron Walters	Jul 9, 2024	Jul 9, 2024	Jul 10, 2024	Approved as Noted	
Jason Lian	Jul 10, 2024	Jul 10, 2024	Jul 10, 2024	Approved as Noted	
Casey Kispert	Jul 10, 2024	Aug 7, 2024		Pending	

GLACIER
NORTHWEST
A CALPORTLAND Company

Jason Lian
Cornerstone Contractors

Subject: Secure Space Salmon Bay Project

Mr. Lian,

Material to supply the Secure Space Salmon Bay project will be sourced from the DuPont Pioneer Aggregates mine. The mine extracts native material from the Steilacoom Gravel formation.

All soil samples submitted for laboratory analysis are collected directly from the active mine face and are representative of the current active mine pit.

Please do not hesitate to contact me with any questions.

Sincerely,

Annie Livengood
Environmental Specialist
CalPortland

CalPortland	Project: Manke	
5975 E Marginal Way S	Project Number: DuPont	**Reported:**
Seattle WA, 98134	Project Manager: Louie Bayless	08-Feb-2024 12:24

B-335 DuPont

17G0110-01 (Solid)

Petroleum Hydrocarbons

Method: NWTPH-Dx — Sampled: 02/06/2024 12:00

Instrument: FID4 — Analyzed: 07-Feb-202024 20:2

Sample Preparation: Preparation Method: EPA 3546 (Microwave)

Preparation Batch: BFG0205 — Sample Size: 10.2 g (wet) — Dry Weight:9.81 g

Prepared: 06-Feb-2024 — Final Volume: 1 mL — % Solids: 96.20

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)		1	5.10	ND	mg/kg	U
Motor Oil Range Organics (C24-C38)		1	10.2	ND	mg/kg	U
Surrogate: o-Terphenyl			*50-150 %*	*81.1*	*%*	

CalPortland	Project: Manke	
5975 E Marginal Way S	Project Number: DuPont	**Reported:**
Seattle WA, 98134	Project Manager: Louie Bayless	08-Feb-2024 12:24

Petroleum Hydrocarbons - Quality Control

Batch BFG0205 - EPA 3546 (Microwave)

Instrument: FID4 Analyst: ML

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BFG0205-BLK1)				Prepared: 06-Feb-2024 Analyzed: 07-Feb-2024 17:30						
Diesel Range Organics (C12-C24)	ND	5.00	mg/kg							U
Motor Oil Range Organics (C24-C38)	ND	10.0	mg/kg							U
Surrogate: o-Terphenyl	16.7		mg/kg	*22.5*		*74.3*	*50-150*			
LCS (BFG0205-BS1)				Prepared: 06-Feb-2024 Analyzed: 07-Feb-2024 17:54						
Diesel Range Organics (C12-C24)	116	5.00	mg/kg	150		77.6	63-120			
Surrogate: o-Terphenyl	19.1		mg/kg	*22.5*		*85.0*	*50-150*			

CalPortland	Project: Dupont/Texada	
5975 E Marginal Way S	Project Number: [none]	**Reported:**
Seattle WA, 98134	Project Manager: Annie Livengood	17-Jun-2024 15:36

DUP-Grab

24B0595-01 (Solid)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM — Sampled: 02/23/2024 11:30

Instrument: NT10 Analyst: RJL — Analyzed: 03/22/2024 18:01

Sample Preparation: Preparation Method: EPA 3546 (Microwave) — Extract ID: 24B0595-01 A 02

Preparation Batch: BMC0195 — Sample Size: 12.52 g (wet) — Dry Weight:10.02 g

Prepared: 03/08/2024 — Final Volume: 1 mL — % Solids: 80.00

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
1,4-Dichlorobenzene	106-46-7	1	0.6	5.0	ND	ug/kg	U
1,2-Dichlorobenzene	95-50-1	1	0.7	5.0	ND	ug/kg	U
Benzyl Alcohol	100-51-6	1	2.5	20.0	ND	ug/kg	U
2-Methylphenol	95-48-7	1	1.1	5.0	ND	ug/kg	U
2,4-Dimethylphenol	105-67-9	1	2.2	20.0	ND	ug/kg	U
1,2,4-Trichlorobenzene	120-82-1	1	2.7	5.0	ND	ug/kg	U
Hexachlorobutadiene	87-68-3	1	0.7	5.0	ND	ug/kg	U
Diethyl phthalate	84-66-2	1	4.8	20.0	ND	ug/kg	U
N-Nitrosodiphenylamine	86-30-6	1	1.3	5.0	ND	ug/kg	U
Hexachlorobenzene	118-74-1	1	0.7	5.0	ND	ug/kg	U
Dibenzo(a,h)anthracene	53-70-3	1	0.9	5.0	ND	ug/kg	U
Surrogate: 2-Fluorophenol				*27-120 %*	*47.4*	*%*	
Surrogate: p-Terphenyl-d14				*37-120 %*	*55.2*	*%*	

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

CalPortland	Project: Dupont/Texada	
5975 E Marginal Way S	Project Number: [none]	**Reported:**
Seattle WA, 98134	Project Manager: Annie Livengood	17-Jun-2024 15:36

DUP-Grab

24B0595-01RE1 (Solid)

Semivolatile Organic Compounds

Method: EPA 8270E — Sampled: 02/23/2024 11:30

Instrument: NT17 Analyst: FL — Analyzed: 05/16/2024 19:05

Sample Preparation: Preparation Method: EPA 3546 (Microwave) — Extract ID: 24B0595-01RE1 A 04
Preparation Batch: BME0035 — Sample Size: 12.57 g (wet) — Dry Weight:10.06 g
Prepared: 05/14/2024 — Final Volume: 1 mL — % Solids: 80.00

Sample Cleanup: Cleanup Method: GPC — Extract ID:24B0595-01RE1 A 04
Cleanup Batch: CME0133 — Initial Volume: 1 uL
Cleaned: 16-May-2024 — Final Volume: 1 uL

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Phenol	108-95-2	1	4.4	19.9	ND	ug/kg	H, U
4-Methylphenol	106-44-5	1	7.3	19.9	ND	ug/kg	H, U
Naphthalene	91-20-3	1	4.2	19.9	ND	ug/kg	H, U
Benzoic acid	65-85-0	1	38.8	199	ND	ug/kg	H, U
2-Methylnaphthalene	91-57-6	1	4.5	19.9	ND	ug/kg	H, U
Acenaphthylene	208-96-8	1	6.2	19.9	ND	ug/kg	H, U
Dimethylphthalate	131-11-3	1	4.4	19.9	ND	ug/kg	H, U
Acenaphthene	83-32-9	1	5.2	19.9	ND	ug/kg	H, U
Dibenzofuran	132-64-9	1	14.0	19.9	ND	ug/kg	H, U
Fluorene	86-73-7	1	14.5	19.9	ND	ug/kg	H, U
Pentachlorophenol	87-86-5	1	31.1	99.4	ND	ug/kg	H, U
Phenanthrene	85-01-8	1	8.7	19.9	ND	ug/kg	H, U
Anthracene	120-12-7	1	7.1	19.9	ND	ug/kg	H, U
Di-n-Butylphthalate	84-74-2	1	5.6	19.9	ND	ug/kg	U
Fluoranthene	206-44-0	1	6.1	19.9	ND	ug/kg	H, U
Pyrene	129-00-0	1	5.6	19.9	ND	ug/kg	H, U
Butylbenzylphthalate	85-68-7	1	9.4	19.9	ND	ug/kg	H, U
Benzo(a)anthracene	56-55-3	1	5.9	19.9	ND	ug/kg	H, U
Chrysene	218-01-9	1	6.0	19.9	ND	ug/kg	H, U
bis(2-Ethylhexyl)phthalate	117-81-7	1	14.0	49.7	ND	ug/kg	H, U
Di-n-Octylphthalate	117-84-0	1	4.4	19.9	ND	ug/kg	U
Benzofluoranthenes, Total		1	20.9	39.8	ND	ug/kg	H, U
Benzo(a)pyrene	50-32-8	1	4.2	19.9	ND	ug/kg	H, U
Indeno(1,2,3-cd)pyrene	193-39-5	1	14.6	19.9	ND	ug/kg	H, U
Dibenzo(a,h)anthracene	53-70-3	1	17.1	19.9	ND	ug/kg	H, U
Benzo(g,h,i)perylene	191-24-2	1	13.5	19.9	ND	ug/kg	H, U
Surrogate: 2-Fluorophenol				*27-120 %*	*80.1*	*%*	H
Surrogate: Phenol-d5				*29-120 %*	*79.2*	*%*	H
Surrogate: 2-Chlorophenol-d4				*31-120 %*	*89.5*	*%*	H
Surrogate: 1,2-Dichlorobenzene-d4				*32-120 %*	*80.2*	*%*	H
Surrogate: Nitrobenzene-d5				*30-120 %*	*81.4*	*%*	H

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

CalPortland	Project: Dupont/Texada	
5975 E Marginal Way S	Project Number: [none]	**Reported:**
Seattle WA, 98134	Project Manager: Annie Livengood	17-Jun-2024 15:36

DUP-Grab
24B0595-01RE1 (Solid)

Semivolatile Organic Compounds

Method: EPA 8270E — Sampled: 02/23/2024 11:30
Instrument: NT17 Analyst: FL — Analyzed: 05/16/2024 19:05

Analyte	CAS Number	Recovery Limits	Recovery	Units	Notes
Surrogate: 2-Fluorobiphenyl		*35-120 %*	*83.5*	*%*	H
Surrogate: 2,4,6-Tribromophenol		*24-134 %*	*101*	*%*	H, Q
Surrogate: p-Terphenyl-d14		*37-120 %*	*115*	*%*	H

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

CalPortland	Project: Dupont/Texada	
5975 E Marginal Way S	Project Number: [none]	**Reported:**
Seattle WA, 98134	Project Manager: Annie Livengood	17-Jun-2024 15:36

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BMC0195 - EPA 8270E

Instrument: NT10 Analyst: RJL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BMC0195-BLK1)				Prepared: 08-Mar-2024 Analyzed: 22-Mar-2024 16:43							
Phenol	ND	4.4	20.0	ug/kg							U
4-Methylphenol	ND	7.4	20.0	ug/kg							U
Naphthalene	ND	4.2	20.0	ug/kg							U
Benzoic acid	ND	39.0	200	ug/kg							U
2-Methylnaphthalene	ND	4.5	20.0	ug/kg							U
Acenaphthylene	ND	6.2	20.0	ug/kg							U
Dimethylphthalate	ND	4.4	20.0	ug/kg							U
Acenaphthene	ND	5.2	20.0	ug/kg							U
Dibenzofuran	ND	14.1	20.0	ug/kg							U
Fluorene	ND	14.6	20.0	ug/kg							U
Pentachlorophenol	ND	31.3	100	ug/kg							U
Phenanthrene	ND	8.7	20.0	ug/kg							U
Anthracene	ND	7.2	20.0	ug/kg							U
Di-n-Butylphthalate	ND	5.6	20.0	ug/kg							U
Fluoranthene	ND	6.1	20.0	ug/kg							U
Pyrene	ND	5.7	20.0	ug/kg							U
Butylbenzylphthalate	ND	9.4	20.0	ug/kg							U
Benzo(a)anthracene	ND	6.0	20.0	ug/kg							U
Chrysene	ND	6.1	20.0	ug/kg							U
bis(2-Ethylhexyl)phthalate	ND	14.1	50.0	ug/kg							U
Di-n-Octylphthalate	ND	4.4	20.0	ug/kg							U
Benzofluoranthenes, Total	ND	21.0	40.0	ug/kg							U
Benzo(a)pyrene	ND	4.2	20.0	ug/kg							U
Indeno(1,2,3-cd)pyrene	ND	14.7	20.0	ug/kg							U
Dibenzo(a,h)anthracene	ND	17.2	20.0	ug/kg							U
Benzo(g,h,i)perylene	ND	13.6	20.0	ug/kg							U
Surrogate: 2-Fluorophenol	638			ug/kg	*750*		*85.1*	*27-120*			
Surrogate: Phenol-d5	653			ug/kg	*750*		*87.1*	*29-120*			
Surrogate: 2-Chlorophenol-d4	671			ug/kg	*750*		*89.5*	*31-120*			
Surrogate: 1,2-Dichlorobenzene-d4	420			ug/kg	*500*		*84.0*	*32-120*			
Surrogate: Nitrobenzene-d5	443			ug/kg	*500*		*88.7*	*30-120*			
Surrogate: 2-Fluorobiphenyl	443			ug/kg	*500*		*88.6*	*35-120*			
Surrogate: 2,4,6-Tribromophenol	673			ug/kg	*750*		*89.8*	*24-134*			
Surrogate: p-Terphenyl-d14	543			ug/kg	*500*		*109*	*37-120*			

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

CalPortland	Project: Dupont/Texada	
5975 E Marginal Way S	Project Number: [none]	**Reported:**
Seattle WA, 98134	Project Manager: Annie Livengood	17-Jun-2024 15:36

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BMC0195 - EPA 8270E

Instrument: NT10 Analyst: RJL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BMC0195-BS1)					Prepared: 08-Mar-2024	Analyzed: 22-Mar-2024 17:22					
Phenol	383	4.4	20.0	ug/kg	500		76.6	31-120			
4-Methylphenol	366	7.4	20.0	ug/kg	500		73.1	29-120			
Naphthalene	363	4.2	20.0	ug/kg	500		72.6	41-120			
Benzoic acid	1710	39.0	200	ug/kg	2250		76.0	10-120			
2-Methylnaphthalene	365	4.5	20.0	ug/kg	500		73.1	43-120			
Acenaphthylene	367	6.2	20.0	ug/kg	500		73.4	42-120			
Dimethylphthalate	392	4.4	20.0	ug/kg	500		78.3	43-120			
Acenaphthene	372	5.2	20.0	ug/kg	500		74.4	45-120			
Dibenzofuran	383	14.1	20.0	ug/kg	500		76.7	43-120			
Fluorene	426	14.6	20.0	ug/kg	500		85.2	40-120			
Pentachlorophenol	1300	31.3	100	ug/kg	1500		86.7	33-133			
Phenanthrene	395	8.7	20.0	ug/kg	500		78.9	49-120			
Anthracene	375	7.2	20.0	ug/kg	500		75.0	37-120			
Di-n-Butylphthalate	398	5.6	20.0	ug/kg	500		79.6	48-126			
Fluoranthene	412	6.1	20.0	ug/kg	500		82.4	38-127			
Pyrene	389	5.7	20.0	ug/kg	500		77.9	39-122			
Butylbenzylphthalate	411	9.4	20.0	ug/kg	500		82.2	45-132			
Benzo(a)anthracene	401	6.0	20.0	ug/kg	500		80.2	44-120			
Chrysene	397	6.1	20.0	ug/kg	500		79.4	47-120			
bis(2-Ethylhexyl)phthalate	507	14.1	50.0	ug/kg	500		101	10-130			
Di-n-Octylphthalate	409	4.4	20.0	ug/kg	500		81.7	10-124			
Benzofluoranthenes, Total	806	21.0	40.0	ug/kg	1000		80.6	30-160			
Benzo(a)pyrene	382	4.2	20.0	ug/kg	500		76.5	37-120			
Indeno(1,2,3-cd)pyrene	409	14.7	20.0	ug/kg	500		81.8	30-160			
Dibenzo(a,h)anthracene	406	17.2	20.0	ug/kg	500		81.1	30-160			
Benzo(g,h,i)perylene	413	13.6	20.0	ug/kg	500		82.6	10-150			
Surrogate: 2-Fluorophenol	687			ug/kg	*750*		*91.6*	*27-120*			
Surrogate: Phenol-d5	718			ug/kg	*750*		*95.7*	*29-120*			
Surrogate: 2-Chlorophenol-d4	712			ug/kg	*750*		*94.9*	*31-120*			
Surrogate: 1,2-Dichlorobenzene-d4	435			ug/kg	*500*		*87.1*	*32-120*			
Surrogate: Nitrobenzene-d5	469			ug/kg	*500*		*93.9*	*30-120*			
Surrogate: 2-Fluorobiphenyl	459			ug/kg	*500*		*91.8*	*35-120*			
Surrogate: 2,4,6-Tribromophenol	814			ug/kg	*750*		*109*	*24-134*			
Surrogate: p-Terphenyl-d14	528			ug/kg	*500*		*106*	*37-120*			

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

CalPortland	Project: Dupont/Texada	
5975 E Marginal Way S	Project Number: [none]	**Reported:**
Seattle WA, 98134	Project Manager: Annie Livengood	17-Jun-2024 15:36

Semivolatile Organic Compounds - Quality Control

Batch BME0035 - EPA 8270E

Instrument: NT17 Analyst: FL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BME0035-BLK1)					Prepared: 14-May-2024	Analyzed: 16-May-2024 17:11					
Phenol	ND	4.4	20.0	ug/kg							U
4-Methylphenol	ND	7.4	20.0	ug/kg							U
Naphthalene	ND	4.2	20.0	ug/kg							U
Benzoic acid	ND	39.0	200	ug/kg							U
2-Methylnaphthalene	ND	4.5	20.0	ug/kg							U
Acenaphthylene	ND	6.2	20.0	ug/kg							U
Dimethylphthalate	ND	4.4	20.0	ug/kg							U
Acenaphthene	ND	5.2	20.0	ug/kg							U
Dibenzofuran	ND	14.1	20.0	ug/kg							U
Fluorene	ND	14.6	20.0	ug/kg							U
Pentachlorophenol	ND	31.3	100	ug/kg							U
Phenanthrene	ND	8.7	20.0	ug/kg							U
Anthracene	ND	7.2	20.0	ug/kg							U
Di-n-Butylphthalate	ND	5.6	20.0	ug/kg							U
Fluoranthene	ND	6.1	20.0	ug/kg							U
Pyrene	ND	5.7	20.0	ug/kg							U
Butylbenzylphthalate	ND	9.4	20.0	ug/kg							U
Benzo(a)anthracene	ND	6.0	20.0	ug/kg							U
Chrysene	ND	6.1	20.0	ug/kg							U
bis(2-Ethylhexyl)phthalate	ND	14.1	50.0	ug/kg							U
Di-n-Octylphthalate	ND	4.4	20.0	ug/kg							U
Benzofluoranthenes, Total	ND	21.0	40.0	ug/kg							U
Benzo(a)pyrene	ND	4.2	20.0	ug/kg							U
Indeno(1,2,3-cd)pyrene	ND	14.7	20.0	ug/kg							U
Dibenzo(a,h)anthracene	ND	17.2	20.0	ug/kg							U
Benzo(g,h,i)perylene	ND	13.6	20.0	ug/kg							U
Surrogate: 2-Fluorophenol	517			ug/kg	*750*		*68.9*	*27-120*			
Surrogate: Phenol-d5	519			ug/kg	*750*		*69.2*	*29-120*			
Surrogate: 2-Chlorophenol-d4	577			ug/kg	*750*		*77.0*	*31-120*			
Surrogate: 1,2-Dichlorobenzene-d4	342			ug/kg	*500*		*68.4*	*32-120*			
Surrogate: Nitrobenzene-d5	344			ug/kg	*500*		*68.7*	*30-120*			
Surrogate: 2-Fluorobiphenyl	363			ug/kg	*500*		*72.6*	*35-120*			
Surrogate: 2,4,6-Tribromophenol	636			ug/kg	*750*		*84.8*	*24-134*			*Q*
Surrogate: p-Terphenyl-d14	496			ug/kg	*500*		*99.2*	*37-120*			

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

CalPortland	Project: Dupont/Texada	
5975 E Marginal Way S	Project Number: [none]	**Reported:**
Seattle WA, 98134	Project Manager: Annie Livengood	17-Jun-2024 15:36

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BME0035 - EPA 8270E

Instrument: NT17 Analyst: FL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BME0035-BS1)					Prepared: 14-May-2024		Analyzed: 16-May-2024 17:49				
Phenol	329	4.4	20.0	ug/kg	500		65.7	31-120			
4-Methylphenol	309	7.4	20.0	ug/kg	500		61.8	29-120			
Naphthalene	326	4.2	20.0	ug/kg	500		65.3	41-120			
Benzoic acid	1110	39.0	200	ug/kg	2250		49.4	10-120			
2-Methylnaphthalene	355	4.5	20.0	ug/kg	500		71.0	43-120			
Acenaphthylene	328	6.2	20.0	ug/kg	500		65.6	42-120			
Dimethylphthalate	392	4.4	20.0	ug/kg	500		78.3	43-120			
Acenaphthene	357	5.2	20.0	ug/kg	500		71.5	45-120			
Dibenzofuran	362	14.1	20.0	ug/kg	500		72.4	43-120			
Fluorene	288	14.6	20.0	ug/kg	500		57.7	40-120			Q
Pentachlorophenol	564	31.3	100	ug/kg	1500		37.6	33-133			Q
Phenanthrene	358	8.7	20.0	ug/kg	500		71.6	49-120			
Anthracene	354	7.2	20.0	ug/kg	500		70.7	37-120			
Di-n-Butylphthalate	394	5.6	20.0	ug/kg	500		78.7	48-126			
Fluoranthene	413	6.1	20.0	ug/kg	500		82.6	38-127			
Pyrene	399	5.7	20.0	ug/kg	500		79.8	39-122			
Butylbenzylphthalate	434	9.4	20.0	ug/kg	500		86.9	45-132			
Benzo(a)anthracene	341	6.0	20.0	ug/kg	500		68.3	44-120			Q
Chrysene	378	6.1	20.0	ug/kg	500		75.6	47-120			
bis(2-Ethylhexyl)phthalate	422	14.1	50.0	ug/kg	500		84.5	10-130			
Di-n-Octylphthalate	368	4.4	20.0	ug/kg	500		73.7	10-124			
Benzofluoranthenes, Total	691	21.0	40.0	ug/kg	1000		69.1	30-160			
Benzo(a)pyrene	376	4.2	20.0	ug/kg	500		75.2	37-120			
Indeno(1,2,3-cd)pyrene	462	14.7	20.0	ug/kg	500		92.3	30-160			
Dibenzo(a,h)anthracene	473	17.2	20.0	ug/kg	500		94.7	30-160			
Benzo(g,h,i)perylene	401	13.6	20.0	ug/kg	500		80.2	10-150			
Surrogate: 2-Fluorophenol	560			ug/kg	*750*		*74.7*	*27-120*			
Surrogate: Phenol-d5	561			ug/kg	*750*		*74.7*	*29-120*			
Surrogate: 2-Chlorophenol-d4	651			ug/kg	*750*		*86.7*	*31-120*			
Surrogate: 1,2-Dichlorobenzene-d4	374			ug/kg	*500*		*74.9*	*32-120*			
Surrogate: Nitrobenzene-d5	385			ug/kg	*500*		*76.9*	*30-120*			
Surrogate: 2-Fluorobiphenyl	425			ug/kg	*500*		*85.0*	*35-120*			
Surrogate: 2,4,6-Tribromophenol	832			ug/kg	*750*		*111*	*24-134*			*Q*
Surrogate: p-Terphenyl-d14	525			ug/kg	*500*		*105*	*37-120*			

CalPortland	Project: Dupont/Texada	
5975 E Marginal Way S	Project Number: [none]	**Reported:**
Seattle WA, 98134	Project Manager: Annie Livengood	17-Jun-2024 15:36

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - Quality Control

Batch BME0035 - EPA 8270E

Instrument: NT17 Analyst: FL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BME0035-BSD1)					Prepared: 14-May-2024	Analyzed: 16-May-2024 18:26					
Phenol	338	4.4	20.0	ug/kg	500		67.7	31-120	2.94	30	
4-Methylphenol	317	7.4	20.0	ug/kg	500		63.4	29-120	2.57	30	
Naphthalene	335	4.2	20.0	ug/kg	500		67.0	41-120	2.59	30	
Benzoic acid	1250	39.0	200	ug/kg	2250		55.5	10-120	11.60	30	
2-Methylnaphthalene	359	4.5	20.0	ug/kg	500		71.8	43-120	1.10	30	
Acenaphthylene	333	6.2	20.0	ug/kg	500		66.6	42-120	1.46	30	
Dimethylphthalate	394	4.4	20.0	ug/kg	500		78.8	43-120	0.60	30	
Acenaphthene	360	5.2	20.0	ug/kg	500		72.1	45-120	0.83	30	
Dibenzofuran	362	14.1	20.0	ug/kg	500		72.3	43-120	0.08	30	
Fluorene	294	14.6	20.0	ug/kg	500		58.7	40-120	1.84	30	Q
Pentachlorophenol	567	31.3	100	ug/kg	1500		37.8	33-133	0.59	30	Q
Phenanthrene	365	8.7	20.0	ug/kg	500		73.0	49-120	2.04	30	
Anthracene	356	7.2	20.0	ug/kg	500		71.3	37-120	0.77	30	
Di-n-Butylphthalate	400	5.6	20.0	ug/kg	500		80.0	48-126	1.63	30	
Fluoranthene	415	6.1	20.0	ug/kg	500		83.0	38-127	0.49	30	
Pyrene	441	5.7	20.0	ug/kg	500		88.2	39-122	10.00	30	
Butylbenzylphthalate	442	9.4	20.0	ug/kg	500		88.4	45-132	1.74	30	
Benzo(a)anthracene	348	6.0	20.0	ug/kg	500		69.6	44-120	1.92	30	Q
Chrysene	384	6.1	20.0	ug/kg	500		76.8	47-120	1.51	30	
bis(2-Ethylhexyl)phthalate	431	14.1	50.0	ug/kg	500		86.1	10-130	1.95	30	
Di-n-Octylphthalate	375	4.4	20.0	ug/kg	500		75.0	10-124	1.73	30	
Benzofluoranthenes, Total	717	21.0	40.0	ug/kg	1000		71.7	30-160	3.72	30	
Benzo(a)pyrene	382	4.2	20.0	ug/kg	500		76.3	37-120	1.55	30	
Indeno(1,2,3-cd)pyrene	468	14.7	20.0	ug/kg	500		93.6	30-160	1.34	30	
Dibenzo(a,h)anthracene	481	17.2	20.0	ug/kg	500		96.1	30-160	1.54	30	
Benzo(g,h,i)perylene	405	13.6	20.0	ug/kg	500		81.1	10-150	1.09	30	
Surrogate: 2-Fluorophenol	599			ug/kg	*750*		*79.8*	*27-120*			
Surrogate: Phenol-d5	599			ug/kg	*750*		*79.8*	*29-120*			
Surrogate: 2-Chlorophenol-d4	612			ug/kg	*750*		*81.6*	*31-120*			
Surrogate: 1,2-Dichlorobenzene-d4	388			ug/kg	*500*		*77.6*	*32-120*			
Surrogate: Nitrobenzene-d5	408			ug/kg	*500*		*81.5*	*30-120*			
Surrogate: 2-Fluorobiphenyl	443			ug/kg	*500*		*88.5*	*35-120*			
Surrogate: 2,4,6-Tribromophenol	879			ug/kg	*750*		*117*	*24-134*			*Q*
Surrogate: p-Terphenyl-d14	551			ug/kg	*500*		*110*	*37-120*			

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

CalPortland	Project: Dupont/Texada	
5975 E Marginal Way S	Project Number: [none]	**Reported:**
Seattle WA, 98134	Project Manager: Annie Livengood	17-Jun-2024 15:36

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - SIM - Quality Control

Batch BMC0195 - EPA 8270E-SIM

Instrument: NT10 Analyst: RJL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BMC0195-BLK2)					Prepared: 08-Mar-2024 Analyzed: 22-Mar-2024 16:43						
1,4-Dichlorobenzene	ND	0.6	5.0	ug/kg							U
1,2-Dichlorobenzene	ND	0.7	5.0	ug/kg							U
Benzyl Alcohol	ND	2.5	20.0	ug/kg							U
2-Methylphenol	ND	1.1	5.0	ug/kg							U
2,4-Dimethylphenol	ND	2.2	20.0	ug/kg							U
1,2,4-Trichlorobenzene	ND	2.7	5.0	ug/kg							U
Hexachlorobutadiene	ND	0.7	5.0	ug/kg							U
Diethyl phthalate	ND	4.8	20.0	ug/kg							U
N-Nitrosodiphenylamine	ND	1.3	5.0	ug/kg							U
Hexachlorobenzene	ND	0.7	5.0	ug/kg							U
Dibenzo(a,h)anthracene	ND	0.9	5.0	ug/kg							U
Surrogate: 2-Fluorophenol	629			ug/kg	*750*		*83.9*	*27-120*			
Surrogate: p-Terphenyl-d14	485			ug/kg	*500*		*97.0*	*37-120*			

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

CalPortland	Project: Dupont/Texada	
5975 E Marginal Way S	Project Number: [none]	**Reported:**
Seattle WA, 98134	Project Manager: Annie Livengood	17-Jun-2024 15:36

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - SIM - Quality Control

Batch BMC0195 - EPA 8270E-SIM

Instrument: NT10 Analyst: RJL

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BMC0195-BS2)					Prepared: 08-Mar-2024 Analyzed: 22-Mar-2024 17:22						
1,4-Dichlorobenzene	335	0.6	5.0	ug/kg	500		67.1	36-120			
1,2-Dichlorobenzene	339	0.7	5.0	ug/kg	500		67.8	36-120			
Benzyl Alcohol	401	2.5	20.0	ug/kg	500		80.3	25-123			
2-Methylphenol	373	1.1	5.0	ug/kg	500		74.5	26-120			
2,4-Dimethylphenol	652	2.2	20.0	ug/kg	1500		43.5	10-120			
1,2,4-Trichlorobenzene	336	2.7	5.0	ug/kg	500		67.3	35-120			
Hexachlorobutadiene	335	0.7	5.0	ug/kg	500		67.0	34-120			
Diethyl phthalate	449	4.8	20.0	ug/kg	500		89.8	55-120			
N-Nitrosodiphenylamine	387	1.3	5.0	ug/kg	500		77.5	27-120			
Hexachlorobenzene	369	0.7	5.0	ug/kg	500		73.8	32-120			
Dibenzo(a,h)anthracene	415	0.9	5.0	ug/kg	500		82.9	28-125			
Surrogate: 2-Fluorophenol	681			ug/kg	*750*		*90.7*	*27-120*			
Surrogate: p-Terphenyl-d14	532			ug/kg	*500*		*106*	*37-120*			

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

CalPortland	Project: Dupont/Texada	
5975 E Marginal Way S	Project Number: [none]	**Reported:**
Seattle WA, 98134	Project Manager: Annie Livengood	17-Jun-2024 15:36

DUP-Grab

24B0595-01 (Solid)

Aroclor PCB

Method: EPA 8082A — Sampled: 02/23/2024 11:30

Instrument: ECD7 Analyst: AA — Analyzed: 06/15/2024 11:48

Sample Preparation:	Preparation Method: EPA 3546 (Microwave)		Extract ID: 24B0595-01 A 03
	Preparation Batch: BMF0253	Sample Size: 13.97 g (wet)	Dry Weight:12.51 g
	Prepared: 06/12/2024	Final Volume: 2.5 mL	% Solids: 89.54
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 24B0595-01 A 03
	Cleanup Batch: CMF0088	Initial Volume: 2.5 uL	
	Cleaned: 14-Jun-2024	Final Volume: 2.5 uL	
Sample Cleanup:	Cleanup Method: Sulfuric Acid		Extract ID:24B0595-01 A 03
	Cleanup Batch: CMF0086	Initial Volume: 2.5 uL	
	Cleaned: 14-Jun-2024	Final Volume: 2.5 uL	
Sample Cleanup:	Cleanup Method: Sulfur		Extract ID:24B0595-01 A 03
	Cleanup Batch: CMF0087	Initial Volume: 2.5 uL	
	Cleaned: 14-Jun-2024	Final Volume: 2.5 uL	

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Aroclor 1016	12674-11-2	1	1.6	4.0	ND	ug/kg	H, U
Aroclor 1221	11104-28-2	1	1.6	4.0	ND	ug/kg	H, U
Aroclor 1232	11141-16-5	1	1.6	4.0	ND	ug/kg	H, U
Aroclor 1242	53469-21-9	1	1.6	4.0	ND	ug/kg	H, U
Aroclor 1248	12672-29-6	1	1.6	4.0	ND	ug/kg	H, U
Aroclor 1254	11097-69-1	1	1.6	4.0	ND	ug/kg	H, U
Aroclor 1260	11096-82-5	1	0.6	4.0	ND	ug/kg	H, U
Aroclor 1262	37324-23-5	1	0.6	4.0	ND	ug/kg	H, U
Aroclor 1268	11100-14-4	1	0.6	4.0	ND	ug/kg	H, U
Surrogate: Decachlorobiphenyl				*40-126 %*	*83.9*	*%*	H
Surrogate: Tetrachlorometaxylene				*44-120 %*	*78.3*	*%*	H
Surrogate: Decachlorobiphenyl [2C]				*40-126 %*	*83.8*	*%*	H
Surrogate: Tetrachlorometaxylene [2C]				*44-120 %*	*75.1*	*%*	H

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

CalPortland	Project: Dupont/Texada	
5975 E Marginal Way S	Project Number: [none]	**Reported:**
Seattle WA, 98134	Project Manager: Annie Livengood	17-Jun-2024 15:36

Analysis by: Analytical Resources, LLC

Aroclor PCB - Quality Control

Batch BMF0253 - EPA 8082A

Instrument: ECD7 Analyst: AA/NRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BMF0253-BLK1)					Prepared: 12-Jun-2024 Analyzed: 15-Jun-2024 09:42						
Aroclor 1016	ND	1.6	4.0	ug/kg							U
Aroclor 1221	ND	1.6	4.0	ug/kg							U
Aroclor 1232	ND	1.6	4.0	ug/kg							U
Aroclor 1242	ND	1.6	4.0	ug/kg							U
Aroclor 1248	ND	1.6	4.0	ug/kg							U
Aroclor 1254	ND	1.6	4.0	ug/kg							U
Aroclor 1260	ND	0.6	4.0	ug/kg							U
Aroclor 1262	ND	0.6	4.0	ug/kg							U
Aroclor 1268	ND	0.6	4.0	ug/kg							U
Surrogate: Decachlorobiphenyl	7.04			ug/kg	*8.00*		*88.0*	*40-126*			
Surrogate: Tetrachlorometaxylene	6.23			ug/kg	*8.00*		*77.9*	*44-120*			
Surrogate: Decachlorobiphenyl [2C]	6.91			ug/kg	*8.00*		*86.3*	*40-126*			
Surrogate: Tetrachlorometaxylene [2C]	6.03			ug/kg	*8.00*		*75.4*	*44-120*			

CalPortland	Project: Dupont/Texada	
5975 E Marginal Way S	Project Number: [none]	**Reported:**
Seattle WA, 98134	Project Manager: Annie Livengood	17-Jun-2024 15:36

Analysis by: Analytical Resources, LLC

Aroclor PCB - Quality Control

Batch BMF0253 - EPA 8082A

Instrument: ECD7 Analyst: AA/NRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BMF0253-BS1)					Prepared: 12-Jun-2024	Analyzed: 15-Jun-2024 10:03					
Aroclor 1016	99.4	1.6	4.0	ug/kg	101		98.6	56-120			
Aroclor 1260	107	0.6	4.0	ug/kg	101		106	58-120			
Surrogate: Decachlorobiphenyl	7.16			ug/kg	*8.00*		*89.5*	*40-126*			
Surrogate: Tetrachlorometaxylene	6.73			ug/kg	*8.00*		*84.2*	*44-120*			
Surrogate: Decachlorobiphenyl [2C]	7.14			ug/kg	*8.00*		*89.2*	*40-126*			
Surrogate: Tetrachlorometaxylene [2C]	6.49			ug/kg	*8.00*		*81.1*	*44-120*			

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

CalPortland	Project:	Dupont/Texada	
5975 E Marginal Way S	Project Number:	[none]	**Reported:**
Seattle WA, 98134	Project Manager:	Annie Livengood	17-Jun-2024 15:36

Analysis by: Analytical Resources, LLC

Aroclor PCB - Quality Control

Batch BMF0253 - EPA 8082A

Instrument: ECD7 Analyst: AA/NRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BMF0253-BSD1)					Prepared: 12-Jun-2024 Analyzed: 15-Jun-2024 10:24						
Aroclor 1016	99.9	1.6	4.0	ug/kg	101		99.1	56-120	0.43	30	
Aroclor 1260 [2C]	110	0.6	4.0	ug/kg	101		109	58-120	3.74	30	
Surrogate: Decachlorobiphenyl	7.56			ug/kg	*8.00*		*94.4*	*40-126*			
Surrogate: Tetrachlorometaxylene	6.76			ug/kg	*8.00*		*84.5*	*44-120*			
Surrogate: Decachlorobiphenyl [2C]	7.64			ug/kg	*8.00*		*95.5*	*40-126*			
Surrogate: Tetrachlorometaxylene [2C]	6.55			ug/kg	*8.00*		*81.9*	*44-120*			

CalPortland	Project: Dupont/Texada	
5975 E Marginal Way S	Project Number: [none]	Reported:
Seattle WA, 98134	Project Manager: Annie Livengood	17-Jun-2024 15:36

Analysis by: Analytical Resources, LLC

Aroclor PCB - Quality Control

Batch BMF0253 - EPA 8082A

Instrument: ECD7 Analyst: AA/NRB

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Reference (BMF0253-SRM1)					Prepared: 12-Jun-2024 Analyzed: 15-Jun-2024 11:27						
Aroclor 1260 [2C]	121	2.9	20.0	ug/kg	108		112	38-167			
Surrogate: Decachlorobiphenyl	31.5			ug/kg	*40.0*		*78.8*	*40-126*			
Surrogate: Tetrachlorometaxylene	28.6			ug/kg	*40.0*		*71.5*	*44-120*			
Surrogate: Decachlorobiphenyl [2C]	29.9			ug/kg	*40.0*		*74.8*	*40-126*			
Surrogate: Tetrachlorometaxylene [2C]	32.6			ug/kg	*40.0*		*81.5*	*44-120*			

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

CalPortland	Project: Dupont/Texada	
5975 E Marginal Way S	Project Number: [none]	**Reported:**
Seattle WA, 98134	Project Manager: Annie Livengood	20-May-2024 19:16

DUP-Grab

24B0595-01 (Solid)

Dioxins/Furans

Method: EPA 1613B — Sampled: 02/23/2024 11:30

Instrument: AUTOSPEC01 Analyst: pk — Analyzed: 04/09/2024 01:54

Analyte	DF/Split	Ion Ratio	Ratio Limits	EDL	Reporting Limit	Result	Units	Notes

DUP-Grab

24B0595-01 (Solid)

Metals and Metallic Compounds

Method: EPA 6020B UCT-KED — Sampled: 02/23/2024 11:30

Instrument: ICPMS2 Analyst: HAL — Analyzed: 03/07/2024 18:44

Sample Preparation:	Preparation Method: SWN EPA 3050B		Extract ID: 24B0595-01 B
	Preparation Batch: BMB0832	Sample Size: 1.016 g (wet)	Dry Weight:0.97 g
	Prepared: 03/05/2024	Final Volume: 50 mL	% Solids: 95.93

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic	7440-38-2	20	0.04	0.21	1.93	mg/kg	
Cadmium	7440-43-9	20	0.03	0.10	0.05	mg/kg	J
Copper	7440-50-8	20	0.18	0.51	11.7	mg/kg	
Zinc	7440-66-6	20	3.0	6.2	27.6	mg/kg	

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

CalPortland	Project: Dupont/Texada	
5975 E Marginal Way S	Project Number: [none]	**Reported:**
Seattle WA, 98134	Project Manager: Annie Livengood	20-May-2024 19:16

DUP-Grab

24B0595-01 (Solid)

Metals and Metallic Compounds

Method: EPA 6020B — Sampled: 02/23/2024 11:30

Instrument: ICPMS2 Analyst: HAL — Analyzed: 03/05/2024 23:33

Sample Preparation: Preparation Method: SWN EPA 3050B — Extract ID: 24B0595-01 B

Preparation Batch: BMB0832 — Sample Size: 1.016 g (wet) — Dry Weight:0.97 g

Prepared: 03/05/2024 — Final Volume: 50 mL — % Solids: 95.93

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Chromium	7440-47-3	20	0.27	0.51	16.2	mg/kg	
Lead	7439-92-1	20	0.05	0.10	1.30	mg/kg	
Silver	7440-22-4	20	0.02	0.21	ND	mg/kg	U

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

CalPortland	Project: Dupont/Texada	
5975 E Marginal Way S	Project Number: [none]	**Reported:**
Seattle WA, 98134	Project Manager: Annie Livengood	20-May-2024 19:16

DUP-Grab

24B0595-01 (Solid)

Metals and Metallic Compounds

Method: EPA 7471B — Sampled: 02/23/2024 11:30

Instrument: HYDRA Analyst: ML — Analyzed: 03/08/2024 14:55

Sample Preparation: Preparation Method: SMM EPA 7471B — Extract ID: 24B0595-01 A

Preparation Batch: BMC0037 — Sample Size: 0.205 g (wet) — Dry Weight:0.20 g

Prepared: 03/07/2024 — Final Volume: 50 mL — % Solids: 95.93

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Mercury	7439-97-6	1	0.00534	0.0254	ND	mg/kg	U

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

CalPortland	Project: Dupont/Texada	
5975 E Marginal Way S	Project Number: [none]	**Reported:**
Seattle WA, 98134	Project Manager: Annie Livengood	20-May-2024 19:16

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds - Quality Control

Batch BMB0832 - EPA 6020B

Instrument: ICPMS2 Analyst: HAL

QC Sample/Analyte	Isotope	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BMB0832-BLK1)						Prepared: 05-Mar-2024 Analyzed: 05-Mar-2024 21:00						
Chromium	52	ND	0.26	0.50	mg/kg							U
Lead	208	ND	0.05	0.10	mg/kg							U
Silver	107	ND	0.02	0.20	mg/kg							U
Arsenic	75a	ND	0.04	0.20	mg/kg							U
Cadmium	111	ND	0.03	0.10	mg/kg							U
Copper	63	ND	0.17	0.50	mg/kg							U
Zinc	66	ND	2.9	6.0	mg/kg							U
LCS (BMB0832-BS1)						Prepared: 05-Mar-2024 Analyzed: 05-Mar-2024 21:05						
Chromium	52	5.10	0.26	0.50	mg/kg	5.00		102	80-120			
Lead	208	5.14	0.05	0.10	mg/kg	5.00		103	80-120			
Silver	107	4.79	0.02	0.20	mg/kg	5.00		95.9	80-120			
Arsenic	75a	4.62	0.04	0.20	mg/kg	5.00		92.4	80-120			
Cadmium	111	4.57	0.03	0.10	mg/kg	5.00		91.4	80-120			
Copper	63	4.78	0.17	0.50	mg/kg	5.00		95.7	80-120			
Zinc	66	5.4	2.9	6.0	mg/kg	5.00		109	80-120			J
Reference (BMB0832-SRM1)						Prepared: 05-Mar-2024 Analyzed: 05-Mar-2024 22:36						
Chromium	52	24.4	0.65	1.24	mg/kg	30.7		79.5	60.6-139.4			D
Lead	208	86.9	0.13	0.25	mg/kg	82.6		105	81.5-118.5			D
Silver	107	2.47	0.05	0.50	mg/kg	2.35		105	11-188.9			D
Arsenic	75a	13.7	0.09	0.50	mg/kg	14.6		94.0	64.9-134.9			D
Cadmium	111	34.3	0.07	0.25	mg/kg	35.6		96.3	84-116			D
Copper	63	41.9	0.43	1.24	mg/kg	44.2		94.7	79-121			D
Zinc	66	89.0	7.3	14.9	mg/kg	89.0		100	71.1-129.2			D

CalPortland	Project: Dupont/Texada	
5975 E Marginal Way S	Project Number: [none]	**Reported:**
Seattle WA, 98134	Project Manager: Annie Livengood	20-May-2024 19:16

Analysis by: Analytical Resources, LLC

Metals and Metallic Compounds - Quality Control

Batch BMC0037 - EPA 7471B

Instrument: HYDRA Analyst: ML

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BMC0037-BLK1)					Prepared: 07-Mar-2024 Analyzed: 08-Mar-2024 12:47						
Mercury	ND	0.00525	0.0250	mg/kg							U
LCS (BMC0037-BS1)					Prepared: 07-Mar-2024 Analyzed: 08-Mar-2024 12:49						
Mercury	0.491	0.00525	0.0250	mg/kg	0.500		98.1	80-120			

Office: 621 Strander Blvd., Tukwila, WA 98188 | Office Number: 425.410.3046
Email: lab@aasnw.com

July 2, 2024

Mr. Randy Mattson
ICON Materials
4040 Kersey Way, SE,
Auburn, WA

Dear Mr. Mattson,

Please find enclosed analytical data report for **PROJECT: Secure Space Salmon Bay,** located in Seattle, WA. One soil sample was analyzed for Diesel and Oil by NWTPH-Dx/Dx-Ext, PCBby EPA Method 8082, PAH by EPA Method 8270E, Semivolatile Organic Compounds by EPA Method 8270E, RCRA 8 Metals (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver, Mercury) by EPA Method 6020B and Copper and Zinc by EPA Method 6020B on May 30, 2024- June 21, 2024.

The results of the analyses are summarized and included on this report. Applicable detection limits and QA/QC data are included.

Applied Analytical Services, NW appreciates the opportunity to have provided services for this project. If you have any further questions about the data report, please give us a call at 425-410-3046.

Thank you so much and it was a pleasure working with your company on this project. We are looking forward to the next opportunity to work together.

Sincerely,

Dely Grace Agoy
Senior Chemist
425-410-3046
delygrace.agoy@aasnw.com

Office: 621 Strander Blvd., Tukwila, WA 98188 | Office Number: 425.410.3046
Email: lab@aasnw.com

ANALYTICAL DATA REPORT

PROJECT: Secure Space Salmon Bay

Project Number: No Information

Location: Seattle, WA

Submitted to: **ICON Materials**

Project Manager: R. Mattson

Sample Collector: R. Mattson

Sample Matrix:

Aggregate

CONTENTS

Office: 621 Strander Blvd., Tukwila, WA 98188 | Office Number: 425.410.3046
Email: lab@aasnw.com

SAMPLE INFORMATION

SAMPLE ID	AASNW Analytical Project Number	SAMPLING DATE	SAMPLING TIME	SAMPLING DEPTH	Matrix	Analysis
053024	S240530.1	05/30/2024	AM	No Information	S	Diesel and Oil, PAH, 8270, RCRA 8 Metals, PC, Copper and Zinc

ANALYTICAL RESULT

12524 130th Lane NE
Kirkland WA 98034

Tel: (425) 214-5858
(425) 214-5868
Email: lisa@accu-lab.com
website: www.accu-lab.com

ACCU LABORATORY

Analytical Report

Client	**Applied Analytical Services, NW**	**Acculab WO#**	**24-AL0530-6**
	621 Strander BLVD		
	Tukwila, WA 98188	Date Sampled	5/30/2024
Project Manager	**Dely Grace Agoy**	Date Received	5/30/2024
Project Name	**053024**	Date Reported	6/4/2024
Project #			

NWTPH-Dx in Solid

Accu Lab Batch# AL060324-4

Client sample ID					**053024**
Lab ID	**MRL**	**Unit**	**MTH BLK**	**LCS**	24-AL0530-6-1
Matrix			Solid	Solid	Solid
Date Extracted			6/3/2024	6/3/2024	6/3/2024
Date Analyzed			6/3/2024	6/3/2024	6/3/2024
Moisture (%)					1.2%
Diesel Range Organics (DRO)	50	mg/kg	nd	99%	nd
Heavy Oil Range Organics	100	mg/kg	nd		nd
Surrogate Recoveries					
2-Fluorobiphenyl			92%	102%	90%
p-Terphenyl-d4			98%	97%	96%

Acceptable Recovery Limits:

Surrogates/LCS	*70-130%*
MS/MSD	*65-135%*
Acceptable RPD limit:	*30%*

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Analytical Report

Client	**Applied Analytical Services, NW**	**Acculab WO#**	**24-AL0530-6**
	621 Strander BLVD		
	Tukwila, WA 98188	Date Sampled	5/30/2024
Project Manager	**Dely Grace Agoy**	Date Received	5/30/2024
Project Name	**053024**	Date Reported	6/4/2024
Project #			

Semi-Volatiles Full List in Solid by EPA 8270E/3550C

Accu Lab Batch# AL053124-2

Client sample ID					**053024**
Lab ID	**MRL**	**Unit**	**MTH BLK**	**LCS**	24-AL0530-6-1
Matrix			Solid	Solid	Solid
Date Extracted			5/31/2024	5/31/2024	5/31/2024
Date Analyzed			5/31/2024	5/31/2024	5/31/2024
Moisture (%)					1.2%
Pyridine	0.5	mg/kg	nd		nd
Phenol	0.5	mg/kg	nd	75%	nd
2-Chlorophenol	0.5	mg/kg	nd	102%	nd
1,3-Dichlorobenzene	0.2	mg/kg	nd		nd
1,4-Dichlorobenzene	0.2	mg/kg	nd	91%	nd
1,2-Dichlorobenzene	0.2	mg/kg	nd		nd
Bis(2-chloroisopropyl)ether	0.2	mg/kg	nd		nd
2-Methylphenol (o-cresol)	0.5	mg/kg	nd		nd
3,4-Methylphenol (m,p-cresol)	0.5	mg/kg	nd		nd
N-Nitrosodi-n-propylamine	0.2	mg/kg	nd	75%	nd
Hexachloroethane	0.2	mg/kg	nd		nd
Nitrobenzene	0.2	mg/kg	nd		nd
Isophrone	0.2	mg/kg	nd		nd
2-Nitrophenol	0.5	mg/kg	nd		nd
2,4-Dimethylphenol	0.5	mg/kg	nd		nd
Bis (2-chloroethoxy) methane	0.2	mg/kg	nd		nd
Bis(2-chloroethyl)ether	0.2	mg/kg	nd		nd
2,4-Dichlorophenol	0.2	mg/kg	nd		nd
1,2,4-Trichlorobenzene	0.2	mg/kg	nd	56%	nd
Naphthalene	0.2	mg/kg	nd		nd
2,6-Dichlorophenol	0.2	mg/kg	nd		nd
2-Methylnaphthalene	0.2	mg/kg	nd		nd
1-Methylnaphthalene	0.2	mg/kg	nd		nd
Hexachlorobutadiene	0.2	mg/kg	nd		nd
4-Chloro-3-methylphenol	0.2	mg/kg	nd	74%	nd
Hexachlorocyclopentadiene	1.0	mg/kg	nd		nd
2,4,6-Trichlorophenol	0.5	mg/kg	nd		nd
2,4,5-Trichlorophenol	0.5	mg/kg	nd		nd

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Client	**Applied Analytical Services, NW**	**Acculab WO#**	**24-AL0530-6**
	621 Strander BLVD		
	Tukwila, WA 98188	Date Sampled	5/30/2024
Project Manager	**Dely Grace Agoy**	Date Received	5/30/2024
Project Name	**053024**	Date Reported	6/4/2024
Project #			

Semi-Volatiles Full List in Solid by EPA 8270E/3550C

Accu Lab Batch# AL053124-2

Client sample ID					**053024**
Lab ID	**MRL**	**Unit**	**MTH BLK**	**LCS**	24-AL0530-6-1
Matrix			Solid	Solid	Solid
Date Extracted			5/31/2024	5/31/2024	5/31/2024
Date Analyzed			5/31/2024	5/31/2024	5/31/2024
Moisture (%)					1.2%
2-Chloronaphthalene	0.2	mg/kg	nd		nd
Dimethylphthalate	0.2	mg/kg	nd		nd
2,6-Dinitrotoluene	0.5	mg/kg	nd		nd
Acenaphthylene	0.2	mg/kg	nd		nd
Acenaphthene	0.2	mg/kg	nd	109%	nd
2,4-Dinitrophenol	1.0	mg/kg	nd		nd
Dibenzofuran	0.2	mg/kg	nd		nd
4-Nitrophenol	1.0	mg/kg	nd		nd
2,4-Dinitrotoluene	0.2	mg/kg	nd		nd
2,3,4,6-Tetrachlorophenol	0.5	mg/kg	nd		nd
Diethyl phthalate	2.0	mg/kg	nd		nd
4-Chlorophenylphenylether	0.2	mg/kg	nd		nd
Fluorene	0.2	mg/kg	nd		nd
Azobenzene	0.2	mg/kg	nd		nd
2-Methyl-4,6-Dinitrophenol	0.5	mg/kg	nd		nd
4-Bromophenylphenylether	0.2	mg/kg	nd		nd
Hexachlorobenzene	0.2	mg/kg	nd		nd
Pentachlorophenol	0.5	mg/kg	nd	48%	nd
Phenanthrene	0.5	mg/kg	nd		nd
Anthracene	0.5	mg/kg	nd		nd
Di-n-butylphthalate	0.5	mg/kg	nd		nd
Fluoranthene	0.5	mg/kg	nd		nd
Pyrene	0.5	mg/kg	nd	92%	nd
Butylbenzylphthalate	0.5	mg/kg	nd		nd
Benzo(a)anthracene	0.5	mg/kg	nd		nd
Chrysene	0.5	mg/kg	nd		nd
Bis (2-ethylhexyl) phthalate	2.0	mg/kg	nd		nd
Di-n-octylphthalate	0.5	mg/kg	nd		nd

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Email: lab@aasnw.com

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(425) 214-5868
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Analytical Report

Client	**Applied Analytical Services, NW**	**Acculab WO#**	**24-AL0530-6**
	621 Strander BLVD		
	Tukwila, WA 98188	Date Sampled	5/30/2024
Project Manager	**Dely Grace Agoy**	Date Received	5/30/2024
Project Name	**053024**	Date Reported	6/4/2024
Project #			

Semi-Volatiles Full List in Solid by EPA 8270E/3550C

Accu Lab Batch# AL053124-2

Client sample ID					**053024**
Lab ID	**MRL**	**Unit**	**MTH BLK**	**LCS**	24-AL0530-6-1
Matrix			Solid	Solid	Solid
Date Extracted			5/31/2024	5/31/2024	5/31/2024
Date Analyzed			5/31/2024	5/31/2024	5/31/2024
Moisture (%)					1.2%
Benzo(b)fluoranthene	0.5	mg/kg	nd		nd
Benzo(k)fluoranthene	0.5	mg/kg	nd		nd
Benzo(a)pyrene	0.5	mg/kg	nd		nd
Indeno(123-cd)pyrene	0.5	mg/kg	nd		nd
Dibenzo(a,h)anthracene	0.5	mg/kg	nd		nd
Benzo(ghi)perylene	0.5	mg/kg	nd		nd
Surrogate Recoveries					
2-Fluorophenol			108%	75%	118%
Phenol-d6			102%	66%	92%
Nitrobenzene-d5			92%	53%	106%
2-Fluorobiphenyl			119%	83%	86%
2,4,6-Tribromophenol			117%	46%	48%
Terphenyl-d14			111%	93%	93%

Acceptable Recovery Limits:
Surrogates/LCS 40-150%
MS/MSD 40-150%
Acceptable RPD limit: 30%

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Analytical Report

Client	**Applied Analytical Services, NW** 621 Strander BLVD Tukwila, WA 98188	**Acculab WO#**	**24-AL0530-6**
		Date Sampled	5/30/2024
Project Manager	**Dely Grace Agoy**	Date Received	5/30/2024
Project Name	**053024**	Date Reported	6/4/2024
Project #			

PAHs in Solid by EPA 8270E SIM/3550C

Accu Lab Batch# AL060224-2

Client sample ID					**053024**
Lab ID	**MRL**	**Unit**	**MTH BLK**	**LCS**	24-AL0530-6-1
Matrix			Solid	Solid	Solid
Date Extracted			6/2/2024	6/2/2024	6/2/2024
Date Analyzed			6/2/2024	6/2/2024	6/2/2024
Moisture (%)					1.2%
Naphthalene	0.05	mg/kg	nd	127%	nd
2-Methylnaphthalene	0.05	mg/kg	nd		nd
1-Methylnaphthalene	0.05	mg/kg	nd		nd
Acenaphthylene	0.05	mg/kg	nd		nd
Acenaphthene	0.05	mg/kg	nd	133%	nd
Fluorene	0.05	mg/kg	nd		nd
Phenanthrene	0.05	mg/kg	nd		nd
Anthracene	0.05	mg/kg	nd		nd
Fluoranthene	0.05	mg/kg	nd	117%	nd
Pyrene	0.05	mg/kg	nd	118%	nd
Benzo(a)anthracene	0.05	mg/kg	nd		nd
Chrysene	0.05	mg/kg	nd		nd
Benzo(b)fluoranthene	0.10	mg/kg	nd		nd
Benzo(k)fluoranthene	0.10	mg/kg	nd		nd
Benzo(a)pyrene	0.10	mg/kg	nd	113%	nd
Indeno(1,2,3-cd)pyrene	0.10	mg/Kg	nd		nd
Dibenzo(a,h)anthracene	0.10	mg/Kg	nd		nd
Benzo(ghi)perylene	0.10	mg/Kg	nd		nd
Surrogate Recoveries					
2-Fluorobiphenyl			83%	89%	74%
Terphenyl-d14			71%	85%	92%

Acceptable Recovery Limits:
Surrogates/LCS 50-150%
MS/MSD 45-150%
Acceptable RPD Limit: 30%

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ACCU LABORATORY

12524 130th Lane NE
Kirkland WA 98034

Tel: (425) 214-5858
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Analytical Report

Client	**Applied Analytical Services, NW**	**Acculab WO#**	**24-AL0530-6**
	621 Strander BLVD		
	Tukwila, WA 98188	Date Sampled	5/30/2024
Project Manager	**Dely Grace Agoy**	Date Received	5/30/2024
Project Name	**053024**	Date Reported	6/4/2024
Project #			

Polychlorinated Biphenyls in Solid by EPA 8082A/3550C

Accu Lab Batch# AL060224-3

						MS	**MSD**	**RPD**
Client sample ID					**053024**	**053024**	**053024**	**053024**
Lab ID	**MRL**	**Unit**	**MTH BLK**	**LCS**	24-AL0530-6-1	24-AL0530-6-1	24-AL0530-6-1	24-AL0530-6-1
Matrix			Solid	Solid	Solid	Solid	Solid	Solid
Date Extracted			6/2/2024	6/2/2024	6/2/2024	6/2/2024	6/2/2024	6/2/2024
Date Analyzed			6/3/2024	6/3/2024	6/3/2024	6/3/2024	6/3/2024	6/3/2024
Moisture (%)					1.2%	1.2%	1.2%	1.2%
A1016	0.10	mg/kg	nd		nd			
A1221	0.10	mg/kg	nd		nd			
A1232	0.10	mg/kg	nd		nd			
A1242	0.10	mg/kg	nd		nd			
A1248	0.10	mg/kg	nd		nd			
A1254	0.10	mg/kg	nd		nd			
A1260	0.10	mg/kg	nd	84%	nd	101%	85%	18%
Surrogate Recoveries								
Decachlorobiphenyl			100%	72%	92%	94%	93%	
Tetrachloro-m-xylene			96%	105%	83%	84%	86%	

Acceptable Recovery Limits:

Surrogates/LCS	*60-150%*
MS/MSD	*50-150%*
Acceptable RPD limit:	*30%*

Office: 621 Strander Blvd., Tukwila, WA 98188 | Office Number: 425.410.3046
Email: lab@aasnw.com

12524 130th Lane NE
Kirkland WA 98034

Tel: (425) 214-5858
(425) 214-5868
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Analytical Report

Client	Applied Analytical Services, NW 621 Strander BLVD Tukwila, WA 98188	Acculab WO#	24-AL0530-6
		Date Sampled	5/30/2024
Project Manager	Dely Grace Agoy	Date Received	5/30/2024
Project Name	053024	Date Reported	6/4/2024
Project #			

Metals in Solid by EPA 6020B/EPA3050B

Accu Lab Batch# AL060324-11

Client sample ID					053024
Lab ID	**MRL**	**Unit**	**MTH BLK**	**LCS**	24-AL0530-6-1
Matrix			Solid	Solid	Solid
Date Digested			6/3/2024	6/3/2024	6/3/2024
Date Analyzed			6/3/2024	6/3/2024	6/3/2024
Moisture (%)					1.2%
Arsenic (As)	5.0	mg/kg	nd	102%	5.4
Barium (Ba)	5.0	mg/kg	nd	98%	53
Cadmium (Cd)	1.0	mg/kg	nd	101%	nd
Chromium (Cr)	5.0	mg/kg	nd	103%	20
Lead (Pb)	1.0	mg/kg	nd	102%	4.7
Selenium (Se)	5.0	mg/kg	nd	107%	nd
Silver (Ag)	1.0	mg/kg	nd	108%	nd
Mercury (Hg)	0.50	mg/kg	nd	108%	nd

Acceptable Recovery Limits:
LCS 80-120%
MS/MSD 75-125%
Acceptable RPD limit: 20%

***RCRA 8 Metals was analyze using EPA Method 6020B.**

EPA 6010 and EPA 6020 follow the same sample preparation using EPA Method 3050B (Acid Digestion).

The difference between EPA 6010 and EPA 6020B is the analytical equipment for each method.

EPA 6010 Analysis uses ICP- AES (Inductively Coupled Plasma- Atomic Emission Spectrometry while EPA 6020B Analysis uses ICP-MS (Inductively Coupled Plasma- Mass Spectrometry). ICP-MS has a lower detection limit which can go down to parts per trillion. Most laboratories use ICP-MS because of the lower detection limit of the equipment.

12524 130th Lane NE
Kirkland WA 98034

Tel: (425) 214-5858
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Analytical Report

Client	**Applied Analytical Services, NW**	**Acculab WO#**	**24-AL0530-6**
	621 Strander BLVD		
	Tukwila, WA 98188	Date Sampled	5/30/2024
Project Manager	Dely Grace Agoy	Date Received	5/30/2024
Project Name	**053024**	Date Reported	6/4/2024
Project #			

Data Qualifiers and Comments:

Results reported on dry-weight basis for solid samples.

MRL- Method Reporting Limit
nd- Indicates the analyte is not detected at the listing reporting limit.
C- Coelution with other compounds.
M- % Recovery of surrogate, MS/MSD is out of the acceptable limit due to matrix effect.
B- Indicates the analyte is detected in the method blank associated with the sample.
J- The analyte is detected at below the reporting limit.
E- The result reported exceeds the calibration range, and is an estimate.
D- Sample required dilution due to matrix. Method Reporting Limits were elevated due to dilutions.
H- Sample was received or analyzed past holding time
Q- Sample was received with head space, improper preserved or above recommended temperature.
I- Due to insufficient sample, LCS/LCS DUP were analyzed in place of MS/MSD.
R- The recovery of this analyte in QC sample failed high, but the analyte was not detected in all related samples. No action was taken.
R-1- The RPD value for the MS/MSD was outside of QC acceptance limits however both recoveries were acceptable. All related samples were "nd". No action was taken.
R-2- The recovery of the surogate in sample failed high, but all related analytes were not detected in the sample. No action was taken.

Office: 621 Strander Blvd., Tukwila, WA 98188 | Office Number: 425.410.3046
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Analytical Report

Client	**Applied Analytical Services, NW**	**Acculab WO#**	**24-AL0530-6a**
	621 Strander BLVD		
	Tukwila, WA 98188	Date Sampled	5/30/2024
Project Manager	**Dely Grace Agoy**	Date Received	5/30/2024
Project Name	**053024**	Date Reported	6/21/2024
Project #			

Metals in Solid by EPA 6020B/EPA3050B

Accu Lab Batch# AL062124-11

Client sample ID					**053024**
Lab ID	**MRL**	**Unit**	**MTH BLK**	**LCS**	24-AL0530-6-1
Matrix			Solid	Solid	Solid
Date Digested			6/21/2024	6/21/2024	6/21/2024
Date Analyzed			6/21/2024	6/21/2024	6/21/2024
Moisture (%)					1.2%
Copper (Cu)	5.0	mg/kg	nd	85%	26
Zinc (Zn)	5.0	mg/kg	nd	84%	37

Acceptable Recovery Limits:
LCS *80-120%*
MS/MSD *75-125%*
Acceptable RPD limit: *20%*

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Analytical Report

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	621 Strander BLVD		
	Tukwila, WA 98188	Date Sampled	5/30/2024
Project Manager	Dely Grace Agoy	Date Received	5/30/2024
Project Name	**053024**	Date Reported	6/21/2024
Project #			

Data Qualifiers and Comments:

Results reported on dry-weight basis for solid samples.

- **MRL-** Method Reporting Limit
- **nd-** Indicates the analyte is not detected at the listing reporting limit.
- **C-** Coelution with other compounds.
- **M-** % Recovery of surrogate, MS/MSD is out of the acceptable limit due to matrix effect.
- **B-** Indicates the analyte is detected in the method blank associated with the sample.
- **J-** The analyte is detected at below the reporting limit.
- **E-** The result reported exceeds the calibration range, and is an estimate.
- **D-** Sample required dilution due to matrix. Method Reporting Limits were elevated due to dilutions.
- **H-** Sample was received or analyzed past holding time
- **Q-** Sample was received with head space, improper preserved or above recommended temperature.
- **I-** Due to insufficient sample, LCS/LCS DUP were analyzed in place of MS/MSD.
- **R-** The recovery of this analyte in QC sample failed high, but the analyte was not detected in all related samples. No action was taken.
- **R-1-** The RPD value for the MS/MSD was outside of QC acceptance limits however both recoveries were acceptable. All related samples were "nd". No action was taken.
- **R-2-** The recovery of the surogate in sample failed high, but all related analytes were not detected in the sample. No action was taken.

Office: 621 Strander Blvd., Tukwila, WA 98188 | Office Number: 425.410.3046
Email: lab@aasnw.com

APPLIED ANAYTICAL SERVICES,NW

CHAIN-OF-CUSTODY

AASNW PROJECT #: S240530-1

CLIENT: ICON Materials

ADDRESS: 4040 Kersey Way SE, Auburn, WA

PHONE: 206-574-3913 EMAIL: randy.mattson@iconmaterials.com

CLIENT PROJECT #:

PROJECT MANAGER: Randy Mattson

DATE: 5/30/2024 (5/31/24)

PAGE 1 OF 1

PROJECT NAME: Cortake 053024 Secure Space Sub. Bay

LOCATION: ~~Auburn, WA~~ Seattle, WA (JS 5/31/24)

COLLECTOR: R. Mattson

DATE OF COLLECTION: 5/30/24

ANALYSES

	Sample Number	Depth	Time	Sample Type	Container Type	TPH-HCID	TPH Diesel & Oil	TPH-Gasoline	BTEX	VOC 8260SIM	VOC 8260	SemiVol 8270	PAH 8270	PCB 8082	Cl Pesticides 8081	RCRA 8 Metals	MTCA 5 Metals	GRO Suite	DRO Suite	Waste Oil Suite	*Cu & Zn			NOTES	Total Number of Containers	Laboratory Note Number
1	053024		AM	asphalt	4oz		X					X	X	X		X					X			*Cu and Zn added		
2																								on June 19, 2024.		
3																								JS 6/19/24		
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
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18																										
19																										
20																										

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
[signature]	5/30/24 1303	[signature]	5/30/24 1303
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
		[signature]	

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	
CHAIN OF CUSTODY SEALS Y/N/NA	
SEALS INTACT? Y/N/NA	
RECEIVED GOOD COND./COLD	
NOTES:	

LABORATORY NOTES:

3 DAY TAT

Turn Around Time: 24Hr 48Hr 5D

621 STRANDER BLVD, TUKWILA, WA 98188 | PHONE: 425-410-3046 | EMAIL: lab@aasnw.com

ATTACHMENT 5

Laboratory Analytical Reports for Groundwater and VI Sampling

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Elizabeth Webber-Bruya
Ann Webber-Bruya
Michael Erdahl
Vineta Mills
Eric Young

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

June 13, 2025

Kristin Anderson, Project Manager
Floyd-Snider
Two Union Square
601 Union St, Suite 600
Seattle, WA 98101

Dear Ms Anderson:

Included is the amended report from the testing of material submitted on June 5, 2025 from the Cantera-TOC/Time Oil, F&BI 506097 project. Per your request, PCE has been removed from the report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Floyd Snider Data, Pamela Osterhout
FDS0612R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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June 12, 2025

Kristin Anderson, Project Manager
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601 Union St, Suite 600
Seattle, WA 98101

Dear Ms Anderson:

Included are the results from the testing of material submitted on June 5, 2025 from the Cantera-TOC/Time Oil, F&BI 506097 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Floyd Snider Data, Pamela Osterhout
FDS0612R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on June 5, 2025 by Friedman & Bruya, Inc. from the Floyd-Snider Cantera-TOC/Time Oil, F&BI 506097 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Floyd-Snider
506097 -01	01MW15-060525
506097 -02	01MW53R-060525
506097 -03	01MW58R-060525
506097 -04	01MW58R-D-060525
506097 -05	01MW85-060525
506097 -06	01MW107-060525
506097 -07	Trip Blank

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/12/25
Date Received: 06/05/25
Project: Cantera-TOC/Time Oil, F&BI 506097
Date Extracted: 06/06/25
Date Analyzed: 06/06/25

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 50-150)
01MW58R-060525 506097-03	530 x	<210	112
01MW58R-D-060525 506097-04	690 x	<220	131
Method Blank 05-1385 MB2	<50	<200	120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW15-060525	Client:	Floyd-Snider
Date Received:	06/05/25	Project:	Cantera-TOC/Time Oil, F&BI 506097
Date Extracted:	06/10/25	Lab ID:	506097-01
Date Analyzed:	06/10/25	Data File:	061039.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	78	126
Toluene-d8	107	84	115
4-Bromofluorobenzene	97	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	89
cis-1,2-Dichloroethene	9.0
Trichloroethene	1.0

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW53R-060525	Client:	Floyd-Snider
Date Received:	06/05/25	Project:	Cantera-TOC/Time Oil, F&BI 506097
Date Extracted:	06/10/25	Lab ID:	506097-02
Date Analyzed:	06/10/25	Data File:	061036.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	78	126
Toluene-d8	96	84	115
4-Bromofluorobenzene	95	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	4.5
cis-1,2-Dichloroethene	3.4
Trichloroethene	22

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW58R-060525	Client:	Floyd-Snider
Date Received:	06/05/25	Project:	Cantera-TOC/Time Oil, F&BI 506097
Date Extracted:	06/10/25	Lab ID:	506097-03 1/10
Date Analyzed:	06/10/25	Data File:	061037.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	78	126
Toluene-d8	100	84	115
4-Bromofluorobenzene	103	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	92
cis-1,2-Dichloroethene	510
Trichloroethene	290

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW58R-D-060525	Client:	Floyd-Snider
Date Received:	06/05/25	Project:	Cantera-TOC/Time Oil, F&BI 506097
Date Extracted:	06/10/25	Lab ID:	506097-04 1/10
Date Analyzed:	06/10/25	Data File:	061038.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	89	78	126
Toluene-d8	100	84	115
4-Bromofluorobenzene	101	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	90
cis-1,2-Dichloroethene	490
Trichloroethene	280

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW85-060525	Client:	Floyd-Snider
Date Received:	06/05/25	Project:	Cantera-TOC/Time Oil, F&BI 506097
Date Extracted:	06/10/25	Lab ID:	506097-05 1/10
Date Analyzed:	06/10/25	Data File:	061040.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	78	126
Toluene-d8	102	84	115
4-Bromofluorobenzene	103	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	46
cis-1,2-Dichloroethene	1,200
Trichloroethene	4.9

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW107-060525	Client:	Floyd-Snider
Date Received:	06/05/25	Project:	Cantera-TOC/Time Oil, F&BI 506097
Date Extracted:	06/10/25	Lab ID:	506097-06
Date Analyzed:	06/10/25	Data File:	061035.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	78	126
Toluene-d8	100	84	115
4-Bromofluorobenzene	106	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
cis-1,2-Dichloroethene	<1
Trichloroethene	0.057

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Floyd-Snider
Date Received:	Not Applicable	Project:	Cantera-TOC/Time Oil, F&BI 506097
Date Extracted:	06/10/25	Lab ID:	05-1342 mb
Date Analyzed:	06/10/25	Data File:	061008.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	78	126
Toluene-d8	97	84	115
4-Bromofluorobenzene	101	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.05

Date of Report: 06/12/25
Date Received: 06/05/25
Project: Cantera-TOC/Time Oil, F&BI 506097

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	96	92	65-151	4

Date of Report: 06/12/25
Date Received: 06/05/25
Project: Cantera-TOC/Time Oil, F&BI 506097

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 506097-06 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	<0.02	97	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	101	10-211
Trichloroethene	ug/L (ppb)	10	0.057	91	35-149

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	102	100	64-142	2
cis-1,2-Dichloroethene	ug/L (ppb)	10	103	99	70-130	4
Trichloroethene	ug/L (ppb)	10	96	93	70-130	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported between the method detection limit and the lowest calibration point. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k – The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

506097
[redacted]

SAMPLE CHAIN OF CUSTODY

06/05/25 I21 VW3
[redacted]

Page # 1 of 1

Report To Kristin Anderson + Pamela Osterhout
Company Floyd Snider
Address 601 Union St, Suite 600
City, State, ZIP Seattle, WA 9810
Phone 206 292-2078 Email labdata@floydsnider.com

SAMPLERS (signature) [signature]

PROJECT NAME Cantera-TOC / Time Oil

PO #

REMARKS Select CVOCs = ~~PCE~~, TCE, VC, Cis-1,2-DCE

Project specific RLs? - Yes / No

INVOICE TO Pioneer

TURNAROUND TIME
☒ Standard turnaround
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Archive samples
☐ Other
Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Select CVOCs by 8260				Notes
01MW15-060525	01 A-C	6/5/25	09:55	GW	3								✓				Do not report PCE per PO 06/12/25 ME
01MW53R-060525	02 ↓	6/5/25	08:55		3								✓				
01MW58R-060525	03 A-D		10:32		4	✓							✓				
01MW58R-D-060525	04 ↓		10:45		4	✓							✓				
01MW85-060525	05 A-C		09:32		3								✓				
01MW107-060525	06 ↓		08:42		3								✓				
Trip Blank	07 A-B	–	–	Water	2												Added at lab AP 6/5

Samples received at 4 °C

Friedman & Bruya, Inc.
5500 4th Ave S.
Seattle WA 98108
(206) 285-8282
office@friedmanandbruya.com

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	[signature]	Pamela Osterhout	Floyd Snider	6/5/25	1252
Received by:	[signature]	Nhan Phan	FeBI	6/5/25	1252
Relinquished by:					
Received by:					

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 506097 CLIENT Floyd Snider INITIALS/DATE: (NP) 6/5/25

If custody seals are present on cooler, are they intact? ☑ NA ☐ YES ☐ NO

Cooler/Sample temperature 4 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☑ YES ☐ NO

How did samples arrive?
☑ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☑ YES ☐ NO Initials/ AP Date: 6/5/25
*or other representative documents, letters, and/or shipping memos

Number of days samples have been sitting prior to receipt at laboratory Ø days

Are the samples clearly identified? (explain "no" answer below) ☑ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☑ YES ☐ NO

Were appropriate sample containers used? ☑ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☑ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☐ NA ☑ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☑ Yes ☐ No		☐ Not on COC/label
Date Sampled	☑ Yes ☐ No		☐ Not on COC/label
Time Sampled	☑ Yes ☐ No		☐ Not on COC/label
# of Containers	☐ Yes ☑ No	Added Trip Blank at lab.	
Relinquished	☑ Yes ☐ No		
Requested analysis	☑ Yes ☐ On Hold		

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☑ NA ☐ YES ☐ NO

Number of unused TO15 canisters** ______ Number of unused TO17 tubes ______
**Fill out Green manifolds billing sheet

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Elizabeth Webber-Bruya
Ann Webber-Bruya
Michael Erdahl
Vineta Mills
Eric Young

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June 13, 2025

Kristin Anderson, Project Manager
Floyd-Snider
Two Union Square
601 Union St, Suite 600
Seattle, WA 98101

Dear Ms Anderson:

Included is the amended report from the testing of material submitted on June 5, 2025 from the Cantera-TOC/Time Oil, F&BI 506096 project. Per your request, PCE has been removed from the report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Pamela Osterhout
FDS0612R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Elizabeth Webber-Bruya
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June 12, 2025

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Floyd-Snider
Two Union Square
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Seattle, WA 98101

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We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Pamela Osterhout
FDS0612R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on June 5, 2025 by Friedman & Bruya, Inc. from the Floyd-Snider Cantera-TOC/Time Oil, F&BI 506096 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Floyd-Snider
506096 -01	INFLUENT VAULT-060525
506096 -02	CLEAR VAULT-060525
506096 -03	GRAVITY WELL-060525

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/12/25
Date Received: 06/05/25
Project: Cantera-TOC/Time Oil, F&BI 506096
Date Extracted: 06/06/25
Date Analyzed: 06/06/25

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 50-150)
GRAVITY WELL-060525 506096-03	220 x	<210	116
Method Blank 05-1385 MB2	<50	<200	120

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	INFLUENT VAULT-060525	Client:	Floyd-Snider
Date Received:	06/05/25	Project:	Cantera-TOC/Time Oil, F&BI 506096
Date Extracted:	06/06/25	Lab ID:	506096-01
Date Analyzed:	06/06/25	Data File:	060635.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	78	126
Toluene-d8	100	84	115
4-Bromofluorobenzene	102	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.15
cis-1,2-Dichloroethene	4.1
Trichloroethene	44

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	CLEAR VAULT-060525	Client:	Floyd-Snider
Date Received:	06/05/25	Project:	Cantera-TOC/Time Oil, F&BI 506096
Date Extracted:	06/06/25	Lab ID:	506096-02
Date Analyzed:	06/06/25	Data File:	060633.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	78	126
Toluene-d8	98	84	115
4-Bromofluorobenzene	104	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
cis-1,2-Dichloroethene	<1
Trichloroethene	5.5

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	GRAVITY WELL-060525	Client:	Floyd-Snider
Date Received:	06/05/25	Project:	Cantera-TOC/Time Oil, F&BI 506096
Date Extracted:	06/06/25	Lab ID:	506096-03
Date Analyzed:	06/06/25	Data File:	060634.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	78	126
Toluene-d8	98	84	115
4-Bromofluorobenzene	102	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	GRAVITY WELL-060525	Client:	Floyd-Snider
Date Received:	06/05/25	Project:	Cantera-TOC/Time Oil, F&BI 506096
Date Extracted:	06/06/25	Lab ID:	506096-03 1/10
Date Analyzed:	06/10/25	Data File:	061020.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	71	132
Toluene-d8	94	68	139
4-Bromofluorobenzene	101	62	136

Compounds:	Concentration ug/L (ppb)
cis-1,2-Dichloroethene	240
Trichloroethene	250

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Floyd-Snider
Date Received:	Not Applicable	Project:	Cantera-TOC/Time Oil, F&BI 506096
Date Extracted:	06/06/25	Lab ID:	05-1330 mb
Date Analyzed:	06/06/25	Data File:	060608.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	89	78	126
Toluene-d8	98	84	115
4-Bromofluorobenzene	99	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.05

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Floyd-Snider
Date Received:	Not Applicable	Project:	Cantera-TOC/Time Oil, F&BI 506096
Date Extracted:	06/10/25	Lab ID:	05-1342 mb
Date Analyzed:	06/10/25	Data File:	061008.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	78	126
Toluene-d8	97	84	115
4-Bromofluorobenzene	101	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.05

Date of Report: 06/12/25
Date Received: 06/05/25
Project: Cantera-TOC/Time Oil, F&BI 506096

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	96	92	65-151	4

Date of Report: 06/12/25
Date Received: 06/05/25
Project: Cantera-TOC/Time Oil, F&BI 506096

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 506094-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	<0.02	122	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	108	10-211
Trichloroethene	ug/L (ppb)	10	<0.05	104	35-149

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	96	99	64-142	3
cis-1,2-Dichloroethene	ug/L (ppb)	10	103	101	70-130	2
Trichloroethene	ug/L (ppb)	10	98	99	70-130	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/12/25
Date Received: 06/05/25
Project: Cantera-TOC/Time Oil, F&BI 506096

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 506097-06 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	<0.02	97	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	101	10-211
Trichloroethene	ug/L (ppb)	10	0.057	91	35-149

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	102	100	64-142	2
cis-1,2-Dichloroethene	ug/L (ppb)	10	103	99	70-130	4
Trichloroethene	ug/L (ppb)	10	96	93	70-130	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported between the method detection limit and the lowest calibration point. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k – The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

506096
[redacted]

SAMPLE CHAIN OF CUSTODY

06/05/25 VW2/I2

[redacted]

Page # 1 of 1

Report To Kristin Anderson + Pamela Osterhout

Company Floyd Snider

Address 601 Union St, Suite 600

City, State, ZIP Seattle, WA 98101

Phone 206 292-2078 Email labdata@floydsnider.com

SAMPLERS (signature)

PROJECT NAME: Cantera-TOC / Time Oil

PO #

REMARKS

INVOICE TO: Pioneer

TURNAROUND TIME
- ☒ Standard Turnaround
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Archive Samples
- ☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM	PCE, TCE, VC and cis 1,2-DCE by 8260			Notes
INFLUENTVAULT-060525	01 A-C	6/5/25	11:20	GW	3								X			
CLEARVAULT-060525	02 ↓	↓	11:10	GW	3								X			
GRAVITYWELL-060525	03 A-D	↓	11:15	GW	4		X						X			

Samples received at 4 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Pamela Osterhout	Floyd Snider	6/5/25	1253
Received by:		Nhan Phan	FeB I	6/5/25	1253
Relinquished by:					
Received by:					

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 506096 CLIENT Floyd Snider INITIALS/ DATE: (NP) 6/5/25

If custody seals are present on cooler, are they intact?	☑ NA	☐ YES	☐ NO
Cooler/Sample temperature			4 °C Thermometer ID: Fluke 96312917
Were samples received on ice/cold packs?		☑ YES	☐ NO

How did samples arrive?

☑ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☑ YES ☐ NO Initials/ AP Date: 6/5/25

*or other representative documents, letters, and/or shipping memos

Number of days samples have been sitting prior to receipt at laboratory Ø days

Are the samples clearly identified? (explain "no" answer below)		☑ YES	☐ NO
Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below)		☑ YES	☐ NO
Were appropriate sample containers used?	☑ YES	☐ NO	☐ Unknown
If custody seals are present on samples, are they intact?	☑ NA	☐ YES	☐ NO
Are samples requiring no headspace, headspace free?	☐ NA	☑ YES	☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☑ Yes	☐ No	☐ Not on COC/label
Date Sampled	☑ Yes	☐ No	☐ Not on COC/label
Time Sampled	☑ Yes	☐ No	☐ Not on COC/label
# of Containers	☑ Yes	☐ No	
Relinquished	☑ Yes	☐ No	
Requested analysis	☑ Yes	☐ On Hold	

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☑ NA ☐ YES ☐ NO

Number of unused TO15 canisters** ______ Number of unused TO17 tubes ______

**Fill out Green manifolds billing sheet

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Elizabeth Webber-Bruya
Ann Webber-Bruya
Michael Erdahl
Vineta Mills
Eric Young

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

June 11, 2025

Rusty Jones, Project Manager
Crete Consulting
16300 Christensen Road, Suite 214
Tukwila, WA 98188

Dear Mr Jones:

Included are the results from the testing of material submitted on June 4, 2025 from the TOCST1/Secure Space, F&BI 506079 project. There are 14 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Jamie Stevens, Kim Hempel
CTC0611R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 4, 2025 by Friedman & Bruya, Inc. from the Crete Consulting TOCST1/Secure Space, F&BI 506079 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Crete Consulting
506079 -01	Indoor1-060425
506079 -02	Indoor2-060425
506079 -03	Outdoor1-060425
506079 -04	Outdoor2-060425

All quality control requirements were acceptable.

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	Indoor1-060425	Client:	Crete Consulting
Date Received:	06/04/25	Project:	TOCST1 Secure Space
Date Collected:	06/04/25	Lab ID:	506079-01 1/0.84
Date Analyzed:	06/05/25	Data File:	060516.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	97	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	120
APH EC9-12 aliphatics	62
APH EC9-10 aromatics	<21

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	Indoor2-060425	Client:	Crete Consulting
Date Received:	06/04/25	Project:	TOCST1 Secure Space
Date Collected:	06/04/25	Lab ID:	506079-02 1/0.95
Date Analyzed:	06/05/25	Data File:	060515.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	101	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	130
APH EC9-12 aliphatics	150
APH EC9-10 aromatics	<24

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	Outdoor1-060425	Client:	Crete Consulting
Date Received:	06/04/25	Project:	TOCST1 Secure Space
Date Collected:	06/04/25	Lab ID:	506079-03 1/0.84
Date Analyzed:	06/05/25	Data File:	060514.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	98	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	<63
APH EC9-12 aliphatics	<21
APH EC9-10 aromatics	<21

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	Outdoor2-060425	Client:	Crete Consulting
Date Received:	06/04/25	Project:	TOCST1 Secure Space
Date Collected:	06/04/25	Lab ID:	506079-04 1/0.78
Date Analyzed:	06/05/25	Data File:	060513.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	98	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	<58
APH EC9-12 aliphatics	<19
APH EC9-10 aromatics	<19

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	Method Blank	Client:	Crete Consulting
Date Received:	Not Applicable	Project:	TOCST1 Secure Space
Date Collected:	Not Applicable	Lab ID:	05-1325 mb
Date Analyzed:	06/05/25	Data File:	060512.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	96	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	<75
APH EC9-12 aliphatics	<25
APH EC9-10 aromatics	<25

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Indoor1-060425	Client:	Crete Consulting
Date Received:	06/04/25	Project:	TOCST1 Secure Space
Date Collected:	06/04/25	Lab ID:	506079-01 1/0.84
Date Analyzed:	06/05/25	Data File:	060516.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration ug/m3	ppbv
Vinyl chloride	<0.11	<0.042
Benzene	<0.27	<0.084
Trichloroethene	0.95	0.18

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Indoor2-060425	Client:	Crete Consulting
Date Received:	06/04/25	Project:	TOCST1 Secure Space
Date Collected:	06/04/25	Lab ID:	506079-02 1/0.95
Date Analyzed:	06/05/25	Data File:	060515.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	98	70	130

Compounds:	Concentration ug/m3	ppbv
Vinyl chloride	<0.12	<0.047
Benzene	0.76	0.24
Trichloroethene	0.20	0.037

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Outdoor1-060425	Client:	Crete Consulting
Date Received:	06/04/25	Project:	TOCST1 Secure Space
Date Collected:	06/04/25	Lab ID:	506079-03 1/0.84
Date Analyzed:	06/05/25	Data File:	060514.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	95	70	130

	Concentration	
Compounds:	ug/m3	ppbv
Vinyl chloride	<0.11	<0.042
Benzene	<0.27	<0.084
Trichloroethene	<0.09	<0.017

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Outdoor2-060425	Client:	Crete Consulting
Date Received:	06/04/25	Project:	TOCST1 Secure Space
Date Collected:	06/04/25	Lab ID:	506079-04 1/0.78
Date Analyzed:	06/05/25	Data File:	060513.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	95	70	130

Compounds:	Concentration ug/m3	ppbv
Vinyl chloride	<0.1	<0.039
Benzene	<0.25	<0.078
Trichloroethene	<0.084	<0.016

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Crete Consulting
Date Received:	Not Applicable	Project:	TOCST1 Secure Space
Date Collected:	Not Applicable	Lab ID:	05-1325 mb
Date Analyzed:	06/05/25	Data File:	060512.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	93	70	130

Compounds:	Concentration ug/m3	ppbv
Vinyl chloride	<0.13	<0.05
Benzene	<0.32	<0.1
Trichloroethene	<0.11	<0.02

Date of Report: 06/11/25
Date Received: 06/04/25
Project: TOCST1/Secure Space, F&BI 506079

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR VOLATILES BY METHOD MA-APH

Laboratory Code: 506079-01 1/0.84 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
APH EC5-8 aliphatics	ug/m3	120	130	8
APH EC9-12 aliphatics	ug/m3	62	62	0
APH EC9-10 aromatics	ug/m3	<21	<21	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
APH EC5-8 aliphatics	ug/m3	67	79	70-130
APH EC9-12 aliphatics	ug/m3	67	91	70-130
APH EC9-10 aromatics	ug/m3	67	91	70-130

Date of Report: 06/11/25
Date Received: 06/04/25
Project: TOCST1/Secure Space, F&BI 506079

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR VOLATILES BY METHOD TO-15

Laboratory Code: 506079-01 1/0.84 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 25)
Vinyl chloride	ug/m3	<0.11	<0.11	nm
Benzene	ug/m3	<0.27	<0.27	nm
Trichloroethene	ug/m3	0.95	1.0	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	ug/m3	35	97	70-130
Benzene	ug/m3	43	98	70-130
Trichloroethene	ug/m3	73	113	70-130

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported between the method detection limit and the lowest calibration point. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k – The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

506079

SAMPLE CHAIN OF CUSTODY

06/04/25

Page # 1 of 1

Report To Jones, Stevens, K. Hempel

Company CRETE / Pioneer Environmental

Address

City, State, ZIP

Phone 832.330.1359 Email

SAMPLERS (signature) Rusty Jones R. Jones

PROJECT NAME & ADDRESS TOCST1 / Secure Space

PO #

NOTES: EPA TO-15 low-level (VC, TCE, benzene) Aliphatic/aromatic petro. HC using MA DEP APH test method

INVOICE TO PIONEER

TURNAROUND TIME
☒ Standard
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
Default: Clean following final report delivery
Hold (Fee may apply):

SAMPLE INFORMATION										ANALYSIS REQUESTED						
Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	TO15 Full Scan	TO15 BTEXN	Aliphatic and Aromatic APH	Chlorinated VOCs	Helium	EPA TO-15 TCE, VC, Benzene	Notes
INDOOR1-060425	01	37235	15208	IA / SG	6/4/2025	30+	0654	4	1456			X			X	
INDOOR2-060425	02	18562	07853	IA / SG		30	0701	5	1500			X			X	
OUTDOOR1-060425	03	18565	20490	IA / SG		30+	0705	4	1504			X			X	
OUTDOOR2-060425	04	40712	13966	IA / SG		30	0713	5	1514			X			X	0713 to 1514
				IA / SG												
				IA / SG												
				IA / SG												
				IA / SG												

Friedman & Bruya, Inc.
5500 4th Avenue South
Seattle, WA 98108
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: R. Jones	Rusty Jones	CRETE	6/4/2025	1623
Received by:	Anh Phan	FBI	6/4/25	16:23
Relinquished by:		Samples received at 24 °C		
Received by:				

FORMS\COC\COCTO-15.DOC

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 506079 CLIENT Crete INITIALS/ DATE: AP 6/4/25

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature 24 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☐ YES ☒ NO

How did samples arrive?
☒ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/ Date: NP 6/5
*or other representative documents, letters, and/or shipping memos

Number of days samples have been sitting prior to receipt at laboratory 0 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☒ NA ☐ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☒ Yes	☐ No		☐ Not on COC/label
Date Sampled	☒ Yes	☐ No		☐ Not on COC/label
Time Sampled	☒ Yes	☐ No		☐ Not on COC/label
# of Containers	☒ Yes	☐ No		
Relinquished	☒ Yes	☐ No		
Requested analysis	☒ Yes	☐ On Hold		

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☐ NA ☒ YES ☐ NO

Number of unused TO15 canisters** 2 Number of unused TO17 tubes ______
**Fill out Green manifolds billing sheet
S/N 21440, 20552