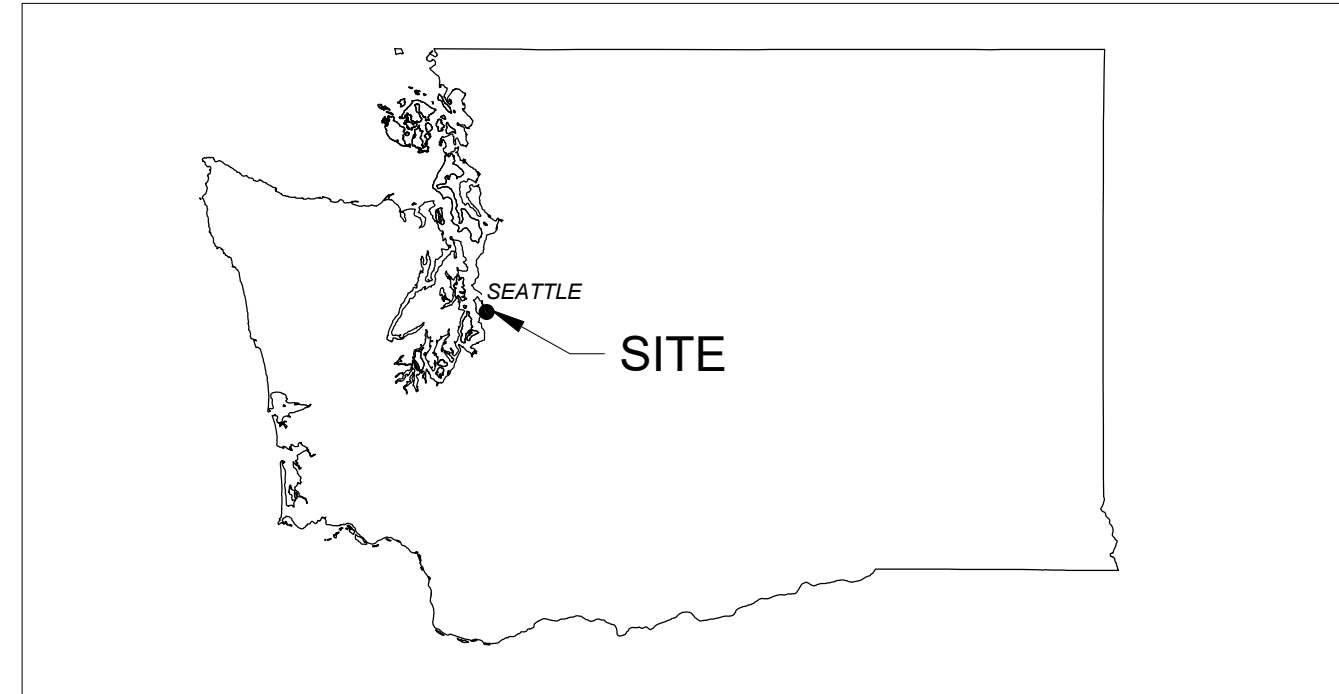
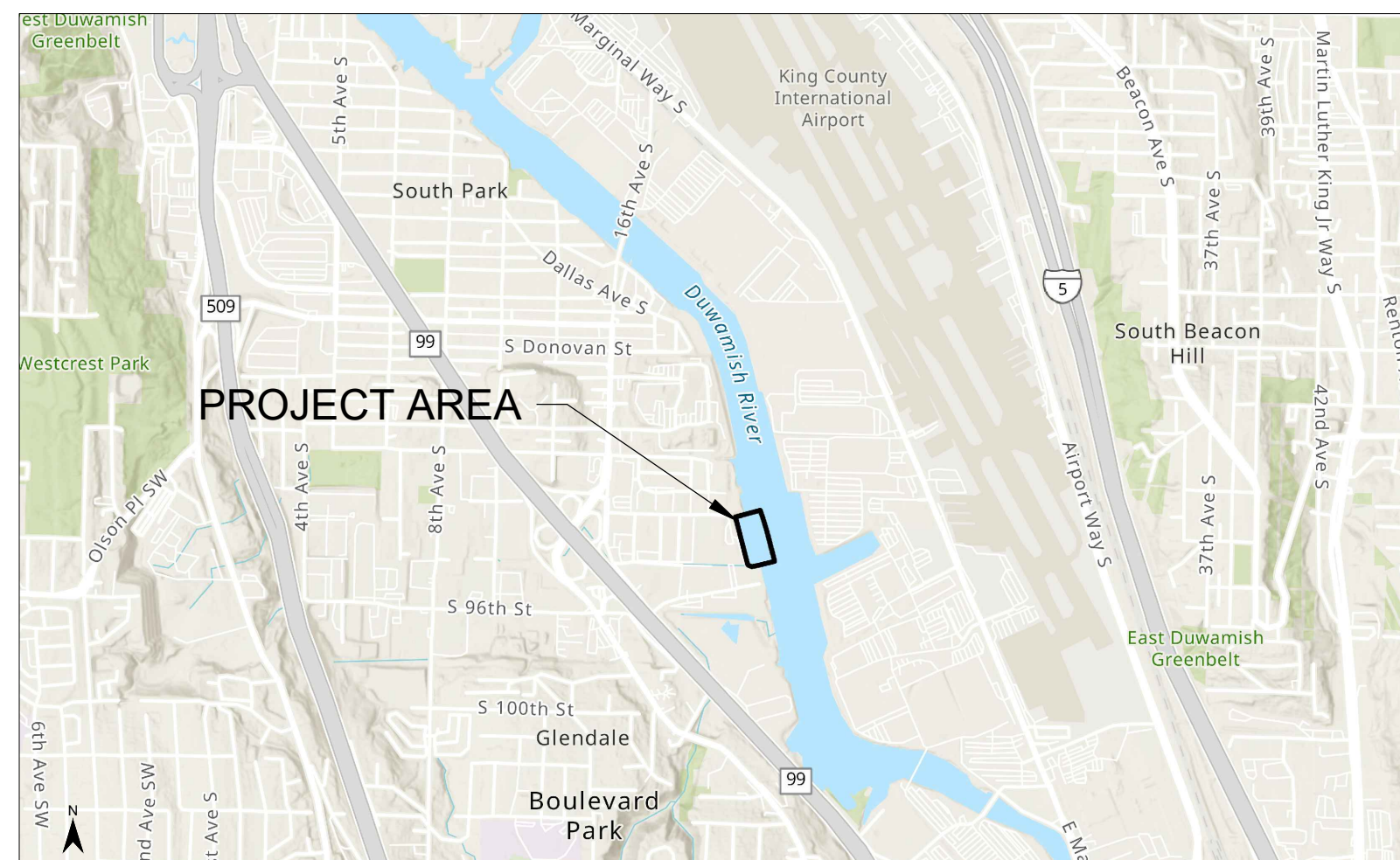



DUWAMISH YACHT CLUB MAINTENANCE DREDGING PRE-FINAL DREDGE PLAN



WASHINGTON STATE MAP
N.T.S.



VICINITY MAP



0 1,000 2,000
Feet

PROJECT OWNER:
DUWAMISH YACHT CLUB
1801 S 93RD ST
SEATTLE, WA 98108


PROJECT ENGINEER:
H. DONALD LAFORD P.E.

PROJECT DESIGNER:
INTEGRAL CONSULTING INC.
508 YALE AVE N, SUITE 204
SEATTLE, WA 98109

LIST OF DRAWINGS

LIST OF DRAWINGS	
SHEET	TITLE
01	TITLE SHEET, DRAWING INDEX, AND GENERAL NOTES
02	DREDGE PLAN
03	DREDGE CROSS-SECTIONS
04	2011 BATHYMETRIC SURVEY
05	DOCK STORAGE AREA DRAWING AND DETAIL PHOTOGRAPHS OF DOCK STRUCTURES
06	UPLAND SITE WORK AREA AND SAND STOCKPILE AREA

LEGEND

 DREDGE LIMITS
 DREDGE ZONE
 EXISTING/HISTORICAL BATHYMETRIC CONTOUR

ABBREVIATIONS

FT	FEET
MLLW	MINIMUM
MIN	MEAN LOWER LOW WATER
TYP	TYPICAL

DETAIL REFERENCING

PHOTOGRAPH REFERENCING

PHOTO REFERENCE NUMBER
SHEET ON WHICH PHOTO APPEARS

5
5

DIRECTION AND
EXTENTS OF PHOTOGRAPH

THESE GENERAL NOTES SHALL APPLY TO ALL SITE ACTIVITIES, ANY CONFLICTS BETWEEN THE GENERAL NOTES, SPECIFIC NOTES IN DRAWINGS, AND/OR CONSTRUCTION OR MATERIAL SPECIFICATIONS WITHIN DRAWINGS AND CONTRACT DOCUMENTS, SHALL BE RESOLVED WITH A REQUEST FOR INFORMATION (RFI) FROM THE CONTRACTOR TO THE OWNER'S REPRESENTATIVE.

ALL NON-CONFORMANCE ISSUES SHALL BE TIMELY REPORTED TO DYC OWNERS REPRESENTATIVE.

PROJECT NAME: DUWAMISH YACHT CLUB DREDGE MAINTENANCE

CONSTRUCTION QUALITY ASSURANCE (CQA) REPRESENTATIVE: TBD

CONTRACTOR: TBD

BATHYMETRIC SURVEY BY: AKS ENGINEERING (APRIL 2023)

SURVEY DATUMS:

- HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH AMERICAN DATUM OF 1983 (NAD 83)
- VERTICAL DATUM: MLLW

DREDGE ELEVATION TOLERANCE IS +/- 1 FT.

IT HAS BEEN ESTIMATED THAT THE AVERAGE SEDIMENT ACCUMULATION RATE AT THE SITE IS 3 INCHES PER YEAR. ESTIMATED DREDGE VOLUMES PRESENTED IN THIS DRAWING SET INCLUDE A CONTINGENCY FACTOR REPRESENTING AN ADDITIONAL 3 INCHES OF SEDIMENT PER YEAR ACCUMULATING FROM THE DATE OF THE 2023 SURVEY.

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DUWAMISH YACHT CLUB

DUWAMISH YACHT CLUB
MAINTENANCE DREDGING
PRE-FINAL DREDGE PLAN

TUKWILA WA

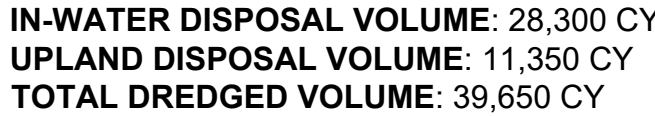
ORN	EB	DATE	7-19-2024
DES	OH	DATE	7-19-2024
CHK	DL	DATE	7-19-2024

**TITLE SHEET,
DRAWING INDEX, AND
GENERAL NOTES**

SHEET

1

OF **6** REV **0**



- NOTES:**

1. DREDGE AND DISPOSE OF MATERIALS IN THE FOLLOWING SEQUENCE. DREDGE ZONES 1 AND 4 SHALL BE DREDGED AND DISPOSED BEFORE DREDGE ZONE 5.
2. THE CONTRACTOR SHALL PROPOSE ALL DREDGE SEQUENCING IN THE CONTRACTOR DREDGE PLAN FOR OWNER APPROVAL.
3. THE CONTRACTOR SHALL PLACE THE SAND COVER OVER DREDGE ZONE 2 IMMEDIATELY AFTER DREDGE ZONE 2 IS DREDGED. SAND COVER THICKNESS TOLERANCE IS +/- 3 INCHES.
4. DREDGING BELOW THE MAXIMUM ALLOWABLE DREDGE ELEVATION WILL NOT BE PAID.
5. OUTER DREDGE AREA BOUNDARY IS APPROXIMATE AND PROVIDED FOR GENERAL REFERENCE ONLY. DREDGING SHALL NOT OCCUR OUTSIDE OF THIS BOUNDARY.
6. CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND EXTENT OF EXISTING STRUCTURES ALONG THE SHORELINE (E.G., RIPRAP, SEAWALLS). CONTRACTOR SHALL TAKE MEASURES TO NOT DISTURB OR UNDERMINE EXISTING SHORELINE ARMORING.
7. MAINTENANCE DREDGING ACTIVITIES ARE LIMITED TO ONLY REMOVING SEDIMENT THAT HAS ACCUMULATED ABOVE SHORELINE SLOPES. SHOULD SLOPE/SHORELINE FAILURES OCCUR DUE TO EXCESSIVE DREDGING BEYOND MAINTENANCE LIMITS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO THE SATISFACTION OF THE OWNER.

[illegible]

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DUWAMISH YACHT CLUB

DUWAMISH YACHT CLUB
MAINTENANCE DREDGING
PRE-FINAL DREDGE PLAN

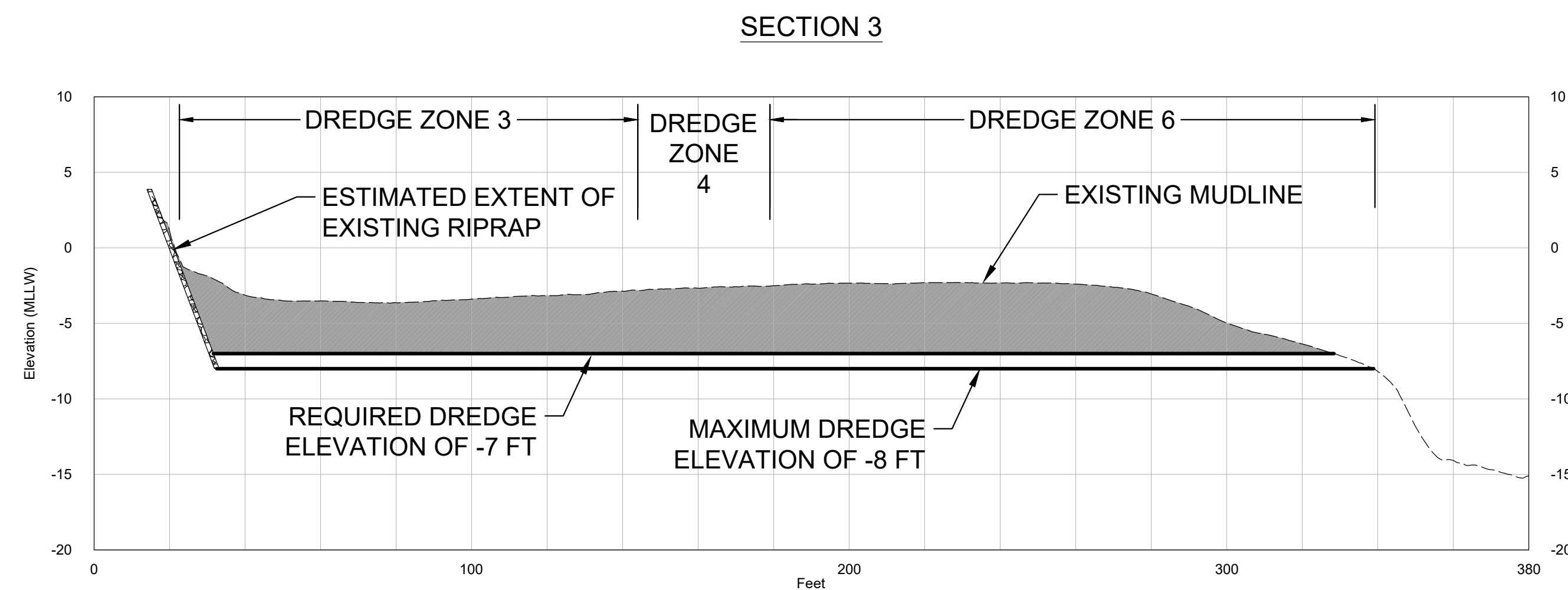
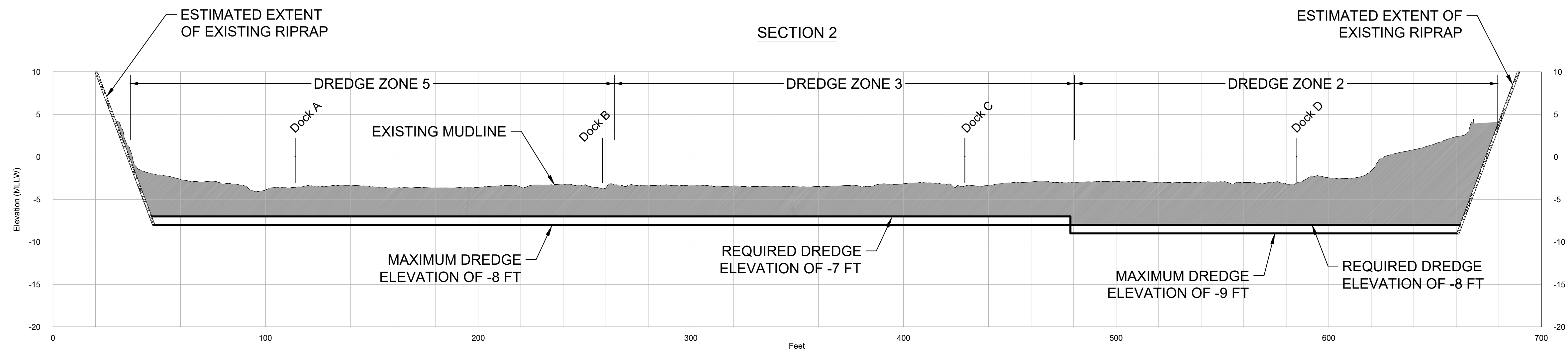
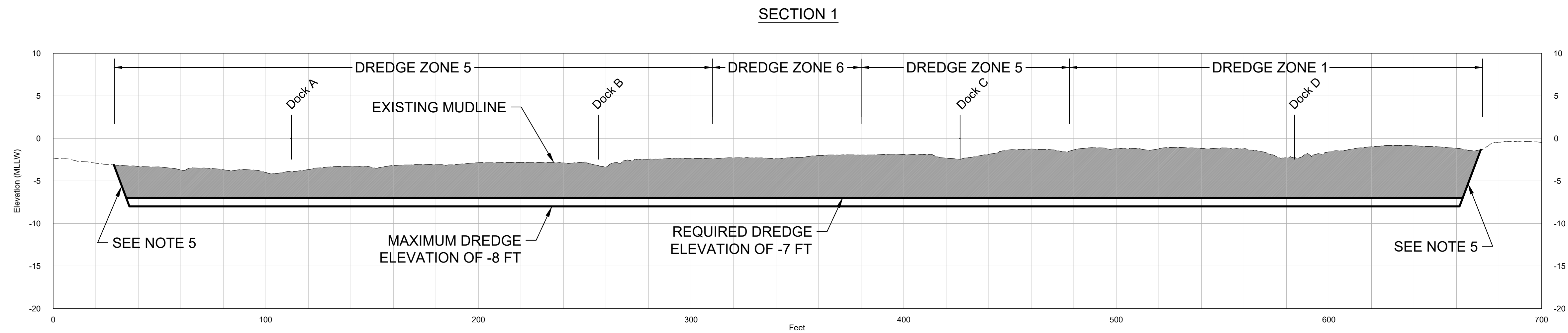
TUKWILA WA

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DREDGE PLAN

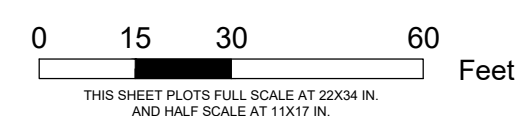
SHEET

2
OF 6 REV 0



NOTES:

1. FLOATING DOCKS, GUIDE PILES, AND DOCK ROOFING STRUCTURES ARE NOT SHOWN. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH SITE CONDITIONS AND PROPOSE AN APPROACH TO ACHIEVE PROJECT REQUIREMENTS IN CONTRACTOR WORK PLAN.
2. GUIDE PILES SHALL NOT BE REMOVED OR DISTURBED.
3. CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND EXTENT OF EXISTING STRUCTURES ALONG THE SHORELINE (E.G., RIPRAP, SEAWALLS). CONTRACTOR SHALL TAKE MEASURES TO NOT DISTURB OR UNDERMINE EXISTING SHORELINE ARMORING.
4. MAINTENANCE DREDGING ACTIVITIES ARE LIMITED TO ONLY REMOVING SEDIMENT THAT HAS ACCUMULATED ABOVE SHORELINE SLOPES. SHOULD SLOPE/SHORELINE FAILURES OCCUR DUE TO EXCESSIVE DREDGING BEYOND MAINTENANCE LIMITS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO THE SATISFACTION OF THE OWNER.
5. FINAL MAXIMUM EMBANKMENT SLOPE IS APPROXIMATELY 2 HORIZONTAL: 1 VERTICAL.



4X VERTICAL EXAGGERATION

[illegible]

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DUWAMISH YACHT CLUB		
DUWAMISH YACHT CLUB MAINTENANCE DREDGING PRE-FINAL DREDGE PLAN		
TUKWILA		WA
DRN	EB	DATE 7-19-2024
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DREDGE CROSS-SECTIONS

SHEET

3

OF **6** REV **0**



NOTES:

1. CONTRACTOR SHALL SUBMIT A WORKPLAN DETAILING PROPOSED MEANS AND METHODS OF TEMPORARY DOCK REMOVAL, TRANSPORT, AND STORAGE TO FACILITATE DREDGING OPERATIONS. WORKPLAN SHALL DESCRIBE METHODS FOR ENSURING DOCKS ARE SECURED IN PLACE AT THE TEMPORARY DOCK STORAGE AREA.

[illegible]

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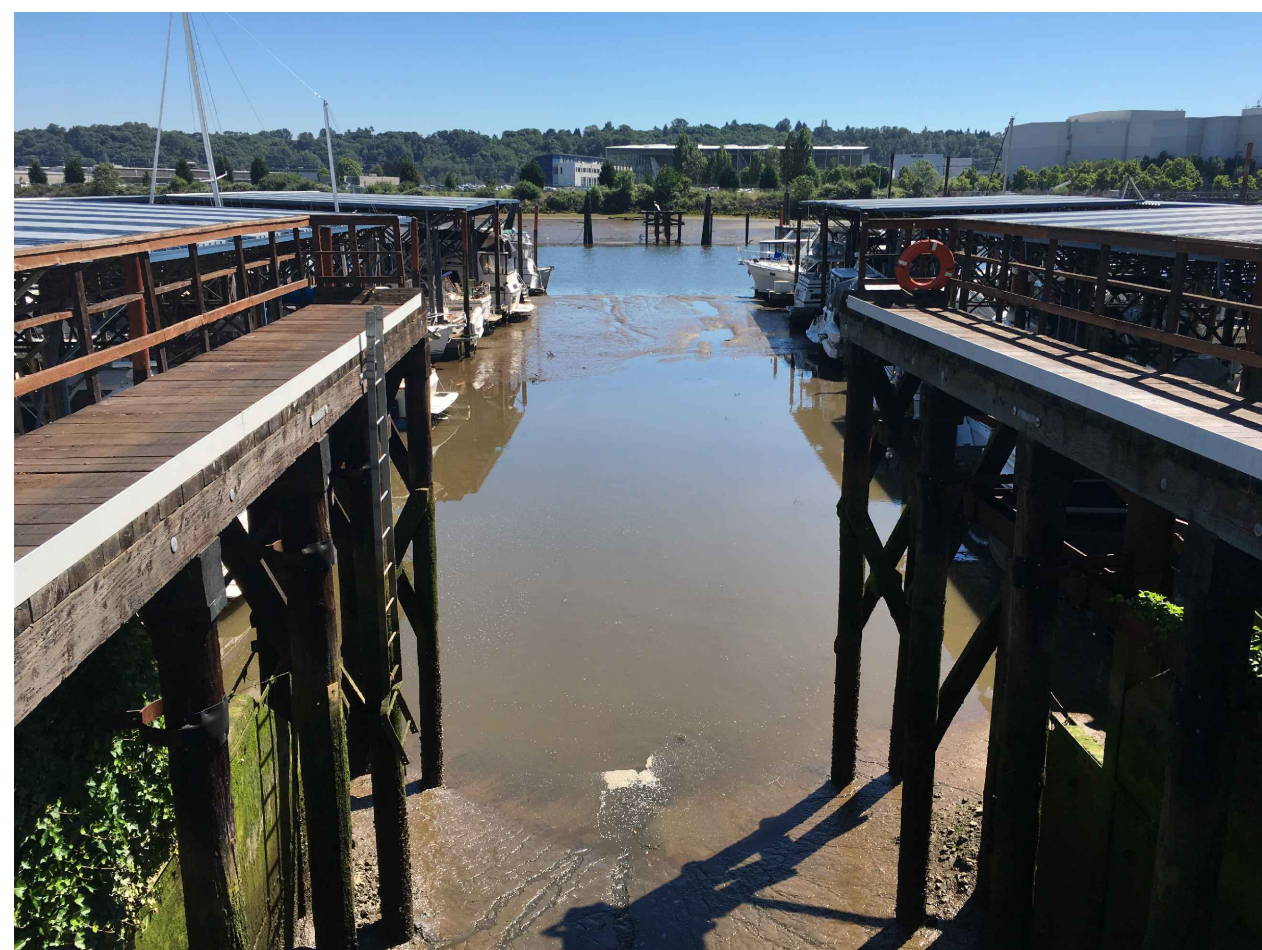
1 DOCK A NORTH CAUSEWAY
2



2 DOCK A-B CAUSEWAY
2



3 DOCK B-C CAUSEWAY
2



4 DOCK C-D CAUSEWAY
2



5 DOCK D SOUTH CAUSEWAY
2



6 DOCK C-D CAUSEWAY ENTRANCE LOOKING SOUTH
2

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DUWAMISH YACHT CLUB
DUWAMISH YACHT CLUB
MAINTENANCE DREDGING
PRE-FINAL DREDGE PLAN
KAWILA WA

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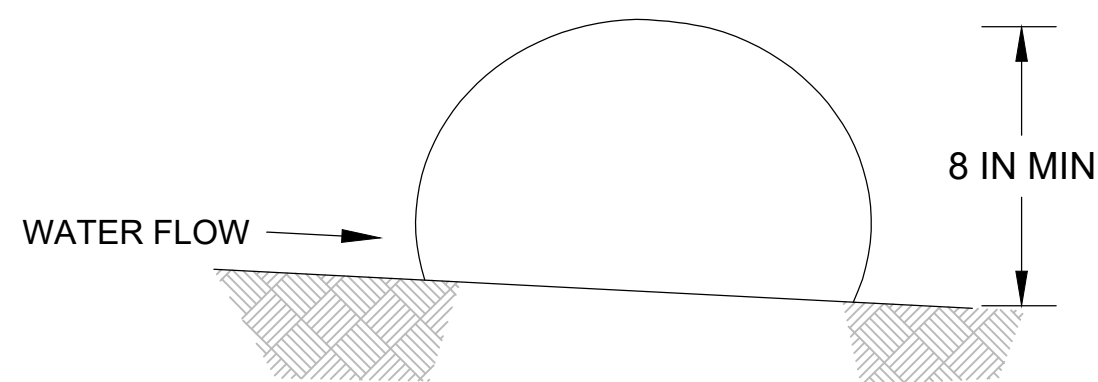
DOCK STORAGE AREA DRAWING AND DETAIL PHOTOGRAPHS OF DOCK STRUCTURES

SHEET

5

OF 6 REV 0

1. CONTRACTOR SHALL NOT USE DYC PROPERTY OUTSIDE OF THE WORK AREA SHOWN ON THIS DRAWING FOR CONSTRUCTION-RELATED ACTIVITIES WITHOUT APPROVAL FROM THE OWNER.
2. CONTRACTOR SHALL RETURN THE UPLAND SITE TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER WITHIN TWO WEEKS OF PROJECT COMPLETION.
3. CONTRACTOR SHALL USE THE HAUL ROUTE SHOWN ON THIS DRAWING FOR EQUIPMENT, PERSONNEL, AND MATERIALS ENTERING OR LEAVING THE WORK AREA.

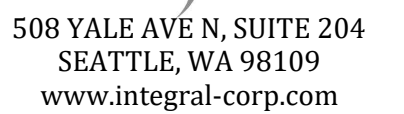


1. COMPOST SOCK, SIZED TO SUIT CONDITIONS (8" MIN TYPICAL).
2. ALL MATERIAL TO MEET COMPOST SOCK SPECIFICATIONS.
3. THE CONTRACTOR SHALL MAINTAIN THE COMPOST FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES AND THEY SHALL BE ROUTINELY INSPECTED.
4. WHERE THE SOCKS REQUIRE REPAIR, THEY SHALL BE ROUTINELY REPAIRED.
5. THE SOCKS SHALL BE DISPOSED OF OFFSITE WHEN NO LONGER REQUIRED, AS DETERMINED BY THE ENGINEER.
6. STAGGER OVERLAPPING JOINTS AND MAINTAIN A MINIMUM OF 12 INCHES OVERLAP AT ALL JOINTS.
7. TURN LIPS UPWARD AT ENDS A MINIMUM OF 30 DEGREES FOR 2 FT TO PREVENT FLOW AROUND ENDS.

Diagram illustrating the correct installation of a plastic liner for a landfill cap:

- FLOW OF RAINWATER**: Indicated by an arrow pointing down the slope of the plastic liner.
- PLASTIC**: The liner material being installed.
- MATERIAL**: The waste material being capped.
- WRAP FABRIC COVERING AROUND CAP MATERIAL**: The plastic liner is shown wrapping around the cap material.
- USE ROCKS OR OTHER WEIGHTS TO HOLD SHEETING IN PLACE**: Rocks or weights are placed on the plastic liner to secure it against the wind.
- BOTTOM LINER**: The plastic liner is shown as the bottom layer of the cap.

1. CAP MATERIAL STAGING SHALL BE ALLOWED ONLY IN AREAS SHOWN ON THE DRAWINGS UNLESS OTHERWISE APPROVED BY THE OWNER.
2. CAP MATERIAL STAGING BOTTOM LINERS SHALL BE POLYETHYLENE, SHALL HAVE A MINIMUM THICKNESS OF 10 MILS, AND SHALL BE RESISTANT TO WEATHERING AND DEGRADATION FOR THE DURATION OF THE PROJECT WORK AND SUITABLE FOR THE INTENDED USE OF THE STOCKPILE AREA.
3. PREPARE THE AREA TO RECEIVE THE BOTTOM LINER TO PROVIDE A SMOOTH, FIRM SUBGRADE THAT SHALL BE FREE OF PROTRUSIONS AND SUITABLE TO PROTECT THE LINER DURING USE.
4. CAP MATERIAL COVERS SHALL BE 6-MIL (MIN) BLACK OR CLEAR REINFORCED POLYETHYLENE OR FABRIC SHEETING. THE COVER SHEETS SHALL BE OF SUFFICIENT LENGTH AND WIDTH TO COMPLETELY AND FULLY COVER ALL OF EACH MATERIAL PILE.
5. CAP MATERIAL COVERS AND LINERS SHALL BE FREE OF HOLES OR TEARS. DEFECTIVE MATERIAL SHALL BE IMMEDIATELY REPAIRED OR REPLACED.
6. FURNISH SAND BAGS OR OTHER DEVICES OF SUFFICIENT QUANTITY AND WEIGHT AND WITH SUFFICIENTLY CLOSE SPACING TO COMPLETELY AND FULLY HOLD CAP MATERIAL COVER IN POSITION.
7. PROVIDE STORMWATER RUN-ON CONTROL, MANAGE ALL DRAINAGE FROM MATERIAL STAGING AREAS.

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DUWAMISH YACHT CLUB
MAINTENANCE DREDGING
PRE-FINAL DREDGE PLAN

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UPLAND SITE WORK
AREA AND SAND
STOCKPILE AREA

6

OF **6** REV **0**