



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

PO Box 47600 • Olympia, WA 98504-7600 • 360-407-6000
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August 26, 2020

J. E. McAmis, Inc
Attn: Scott Vandergrift
621 Country Dr
Chico, CA 95928

RE: Water Quality Certification Order No. **18253** for Corps Public Notice No. **NWS-2019-00953**, Maintenance dredge at Lower Columbia River, Cowlitz and Wahkiakum Counties, Washington

Dear Scott Vandergrift:

On October 5, 2019, J.E. McAmis submitted a request for a Section 401 Water Quality Certification (401 Certification) under the federal Clean Water Act for dredging of the Lower Columbia River, Cowlitz and Wahkiakum Counties, Washington.

The proposed project includes maintenance dredging between River Miles (RM) 14 to 22 near Astoria, Clatsop County, Oregon; RM 28 to 36 near Skamakowa, Wahkiakum County, Washington, RM 66 to 76 near Longview, Cowlitz County, Washington, and RM 100 to 106.5 near Vancouver, Clark County, Washington. Material would be transported via a floating derrick barge to the applicant's upland site in Longview, Washington, and dewatered prior to processing for commercial sale.

On behalf of the State of Washington, Ecology certifies that the work described in the JARPA and the public notice complies with applicable provisions of Sections 301, 302, 303, 306, and 307 of the Clean Water Act, as amended and applicable state laws. This certification is subject to the conditions contained in the enclosed Order.

If you have any questions, please contact Laura Inouye at (360) 407-6165. The enclosed Order may be appealed by following the procedures described in the Order.

Sincerely,

Brenden McFarland, Section Manager
Environmental Review and Transportation Section
Shorelands and Environmental Assistance Program

Enclosure

e-cc: Danette Guy, Corps of Engineers
Jeff Brittain, ODEQ
Josh Elliott, Maul Foster
Michael Tarbert, Maul Foster
George Fornes, WDFW
ECY RE FEDPERMITS
Loree' Randall – HQ, SEA

IN THE MATTER OF GRANTING A)	ORDER # 18253
WATER QUALITY)	Corps Reference No. NWS-2019-0953
CERTIFICATION TO)	Maintenance dredge Lower Columbia River,
J. E. McAmis Inc.)	located in Cowlitz and Wahkiakum Counties,
in accordance with 33 U.S.C. 1341)	Washington.
(FWPCA § 401), RCW 90.48.120, RCW)	
90.48.260 and Chapter 173-201A WAC)	

J. E. McAmis, Inc
Attn: Scott Vandergrift
621 Country Dr
Chico, CA 95928

On October 5, 2019, the Department of Ecology (Ecology) received a request from J. E. McAmis Inc. for a Section 401 Water Quality Certification (WQC) for maintenance dredging on the Lower Columbia River. Ecology issued a public notice for the project on October 15, 2019.

This project includes dredging of up to 50,000 cubic yards (CY) of sediment per year from the Columbia River federal navigational channel. Material would be transported via a floating derrick barge to the applicant's upland site in Longview, Washington, and dewatered prior to processing for commercial sale. Dredging would target a depth of -43 feet Columbia River Datum (CRD) with an overall depth of -45 feet CRD, and is limited to the areas indicated in the maps in Attachment B.

This project is located in the Columbia River between River Miles (RM) 14 to 22 near Astoria, Clatsop County, Oregon; RM 28 to 36 near Skamakowa, Wahkiakum County, Washington, RM 66 to 76 near Longview, Cowlitz County, Washington, and RM 100 to 106.5 near Vancouver, Clark County, Washington.

AUTHORITIES

In exercising authority under 33 U.S.C. § 1341, RCW 90.48.120, and RCW 90.48.260, Ecology has reviewed this application pursuant to the following:

1. Conformance with applicable water quality-based, technology-based, and toxic or pretreatment effluent limitations as provided under 33 U.S.C. §§1311, 1312, 1313, 1316, and 1317 (FWPCA §§ 301, 302, 303, 306 and 307);
2. Conformance with the state water quality standards contained in Chapter 173-201A WAC and authorized by 33 U.S.C. §1313 and by Chapter 90.48 RCW, and with other applicable state laws; and
3. Conformance with the provision of using all known, available and reasonable methods to prevent and control pollution of state waters as required by RCW 90.48.010.

WATER QUALITY CERTIFICATION CONDITIONS

Through issuance of this Order, Ecology certifies that it has reasonable assurance that the activity as proposed and conditioned will be conducted in a manner that will comply with applicable water quality standards and other appropriate requirements of state law. In view of the foregoing and in accordance with 33 U.S.C. §1341, RCW 90.48.120, RCW 90.48.260 Chapter 173-200 WAC and Chapter 173-201A WAC, water quality certification is granted to the Applicant subject to the conditions within this Order.

Certification of this proposal does not authorize the J. E. McAmis to exceed applicable state water quality standards (Chapter 173-201A WAC), ground water quality standards (Chapter 173-200 WAC) or sediment quality standards (Chapter 173-204 WAC). Furthermore, nothing in this certification absolves Applicant from liability for contamination and any subsequent cleanup of surface waters, ground waters or sediments resulting from project construction or operations.

A. General Conditions

1. In this Order, the term “Applicant” shall mean the J. E. McAmis and its agents, assignees, and contractors.
2. All submittals required by this Order shall be sent to Ecology Headquarters Office, Attn: Federal Permit Manager, PO Box 67600, Olympia, Washington 98504-7600, or via e-mail to fednotification@ecy.wa.gov and cc to laura.inouye@ecy.wa.gov. The submittals shall be identified with Order #18253 and include the Applicant name, project name, project contact, and the contact phone number.
3. Work authorized by this Order is limited to the work described in the JARPA received by Ecology on October 5, 2019.
4. The Applicant shall obtain Ecology review and approval before undertaking any changes to the proposed project that might significantly and adversely affect water quality, other than those project changes required by this Order.
5. Within 30 days of receipt of any updated information, Ecology will determine if the revised project requires a new public notice and Water Quality Certification or if a modification to this Order is required.
6. This Order is not effective until the Corps of Engineers Seattle District issues a permit for this project.
7. The Applicant shall send (per A.2.) a copy of the final Corps permits (404/10) to Ecology’s Federal Permit Manager within two weeks of receiving it.

8. The Applicant shall keep copies of this Order on the job site and readily available for reference by Ecology personnel, the construction superintendent, construction managers and lead workers, and state and local government inspectors.
9. The Applicant shall provide access to the project site and all mitigation sites upon request by Ecology personnel for site inspections, monitoring, and/or necessary data collection, to ensure that conditions of this Order are being met.
10. Nothing in this Order waives Ecology's authority to issue additional orders if Ecology determines that further actions are necessary to implement the water quality laws of the state. Further, Ecology retains continuing jurisdiction to make modifications hereto through supplemental order, if additional impacts due to project construction or operation are identified (*e.g.*, violations of water quality standards, downstream erosion, etc.), or if additional conditions are necessary to further protect water quality.
11. In the event of changes or amendments to the state water quality, ground water quality, or sediment standards, or changes in or amendments to the state Water Pollution Control Act (RCW 90.48) or the federal Clean Water Act, Ecology may issue an amendment to this Order to incorporate any such changes or amendments applicable to this project.
12. The Applicant shall ensure that all project engineers, contractors, and other workers at the project site with authority to direct work have read and understand relevant conditions of this Order and all permits, approvals, and documents referenced in this Order. The Applicant shall provide Ecology a signed statement (see Attachment A for an example) from each signatory that s/he has read and understands the conditions of this Order and the above-referenced permits, plans, documents and approvals. These statements shall be provided to Ecology before construction begins.
13. This Order does not authorize direct, indirect, permanent, or temporary impacts to waters of the state or related aquatic resources, except as specifically provided for in conditions of this Order.
14. Failure of any person or entity to comply with the Order may result in the issuance of civil penalties or other actions, whether administrative or judicial, to enforce the terms of this Order.
15. This Order will automatically transfer to a new owner or operator if:
 - a. A written agreement between the Applicant and new owner or operator with the specific transfer date of the Order's obligations, coverage, and liability is submitted to Ecology per condition A.2.;
 - b. A copy of this Order is provided to the new owner or operator; and
 - c. If Ecology does not notify the new Applicant that this Order must be modified to complete the transfer.

B. Notification Requirements

1. The following notification shall be made via phone or e-mail (e-mail is preferred) to Ecology's Federal Permit Manager via e-mail to fednotification@ecy.wa.gov and cc to laura.inouye@ecy.wa.gov. Notifications shall be identified with Order No. 18253 and include the Applicants name, project name, project location, project contact and the contact's phone number.
 - a. Immediately following a violation of state water quality standards or when the project is out of compliance with any of this Orders conditions.
 1. In addition to the phone or e-mail notification, the Applicant shall submit a detailed written report to Ecology within five (5) days that describes the nature of the event, corrective action taken and/or planned, steps to be taken to prevent a recurrence, results of any samples taken, and any other pertinent information.
 - b. At least ten (10) days prior to all pre-dredge meetings
 - c. At least ten (10) days prior to conducting any dredging for each in-water work window.
 - d. At least seven (7) days within project completion of each dredging cycle.

C. Timing

1. This Order shall remain in effect for a period of five (5) years from the date of issuance of the Corps permit. Continuing this project beyond the five-year term of this Order will require the Applicant to obtain review and written approval by Ecology to extend the project for an additional five (5) years. The total term of this Order shall not exceed a total of ten (10) years total.
2. In-water work shall be conducted between October 1 and December 31 of any year, unless otherwise approved by Ecology.
3. Any project change that requires a new or revised Hydraulic Project Approval (HPA) from the Department of Fish and Wildlife should be sent to Ecology for review.

D. Water Quality Monitoring & Criteria

1. Columbia River is categorized as spawning and rearing aquatic life uses. The criteria of the categorization apply as described in WAC 173-201A-200 (1), except as specifically modified by this Order.
2. Visible turbidity anywhere beyond the temporary area of mixing (point of compliance) from the activity shall be considered an exceedance of the standard. A Water Quality Monitoring Plan (WQMP) shall be submitted for review and approval as per condition E.7.e.
3. Monitoring results shall be submitted weekly to the Ecology Federal Permit Manager, per condition A.2.

4. Mitigation and/or additional monitoring may be required if the monitoring results indicate that the water quality standards have not been met.
5. If water quality exceedances for turbidity are observed outside the point of compliance, work shall cease immediately and the Applicant or the contractor shall assess the cause of the water quality problem and take immediate action to stop, contain, and correct the problem and prevent further water quality turbidity exceedances.

E. Dredging and Disposal

1. All dredging is to be done using a clamshell dredge. **Use of any other type of dredge requires preapproval from Ecology.**
2. All dredged material will be taken to the applicant's upland site in Longview, Washington. **Use of any other type of disposal method or location requires pre-approval by Ecology.**
3. Dredging operations shall be conducted in a manner that minimizes the disturbance and siltation of adjacent waters and prevents the accidental discharge of petroleum products, chemicals or other toxic or deleterious substances into state waters.
4. Dredged material shall not be temporarily or permanently stockpiled below the OHWM.
5. Barges shall not be allowed to ground-out during in-water construction.
6. Barges shall be kept free of material that could be blown into water.
7. A pre-dredge meeting is required to be convened prior to the start of each dredging cycle. A **Dredging and Disposal Workplan** is required and shall be submitted to Ecology to the 401/CZM Federal permit manager at the address shown in Condition A2 for review and approval 2 weeks prior to the pre-dredge meeting. The *Dredging and Disposal Workplan* shall include the following:
 - a. General information including schedule, primary contact, and hours of operation
 - b. Dredged quantities and disposal location
 - c. Dredging procedures and sequence
 - d. Equipment list
 - e. A Water Quality Monitoring plan for visual water quality monitoring procedures for both dredging and disposal (return water) locations, including:
 - i. Methods (where observations are occurring)
 - ii. Monitoring frequency
 - iii. Data reporting template

- iv. Procedures in case plume is observed at or beyond the point of compliance.

NOTE: If the dredging and disposal will be conducted per the previously approved plan the Applicant can submit a written statement to Ecology indicating that the dredging and disposal shall be conducted per the previous plan.

8. Prior to each dredging cycle, the Applicant shall contact the DMMP agencies to determine whether additional sediment testing is required. If additional testing is required, no dredging or disposal shall be conducted until the material has been tested and a suitability determination has been issued. This area ranks very low in potential for contamination and the recency determination extends until March 2026. Contact the DMMO for a possible extension on the suitability determination.
9. Dredging shall be confined to the existing federal navigational channel.
10. Post-dredge bathymetric surveys and dredge volumes shall be reported to Ecology within 30 days of completion of each dredging season.

F. Emergency/Contingency Measures

1. The Applicant shall develop and implement a spill prevention and containment plan for this project.
2. The Applicant shall have adequate and appropriate spill response materials on hand to respond to emergency release of petroleum products or any other material into waters of the state.
3. Fuel hoses, oil drums, oil or fuel transfer valves and fittings, etc., shall be checked regularly for drips or leaks, and shall be maintained and stored properly to prevent spills into state waters.
4. Work causing distressed or dying fish, discharges of oil, fuel, or chemicals into state waters or onto land with a potential for entry into state waters, is prohibited. If such work, conditions, or discharges occur, the Applicant shall notify the Ecology Federal Permit Manager per condition B.1. and immediately take the following actions:
 - a. Cease operations at the location of the non-compliance.
 - b. Assess the cause of the water quality problem and take appropriate measures to correct the problem and/or prevent further environmental damage.
 - c. In the event of a discharge of oil, fuel, or chemicals into state waters, or onto land with a potential for entry into state waters, containment and cleanup efforts shall begin immediately and be completed as soon as possible, taking precedence over

- normal work. Cleanup shall include proper disposal of any spilled material and used cleanup materials.
- d. Immediately notify Ecology's Regional Spill Response Office and the Washington State Department of Fish & Wildlife with the nature and details of the problem, any actions taken to correct the problem, and any proposed changes in operation to prevent further problems.
 - e. Immediately notify the National Response Center at 1-800-424-8802, for actual spills to water only.
5. Notify Ecology's Regional Spill Response Office immediately if chemical containers (e.g. drums) are discovered on-site or any conditions present indicating disposal or burial of chemicals on-site that may impact surface water or ground water.

YOUR RIGHT TO APPEAL

You have a right to appeal this Order to the Pollution Control Hearing Board (PCHB) within 30 days of the date of receipt of this Order. The appeal process is governed by Chapter 43.21B RCW and Chapter 371-08 WAC. "Date of receipt" is defined in RCW 43.21B.001(2).

To appeal you must do both of the following within 30 days of the date of receipt of this Order:

- File your appeal and a copy of this Order with the PCHB (see addresses below). Filing means actual receipt by the PCHB during regular business hours.
- Serve a copy of your appeal and this Order on Ecology in paper form - by mail or in person. (See addresses below.) E-mail is not accepted.

You must also comply with other applicable requirements in Chapter 43.21B RCW and Chapter 371-08 WAC.

ADDRESS AND LOCATION INFORMATION

Street Addresses	Mailing Addresses
Department of Ecology Attn: Appeals Processing Desk 300 Desmond Drive SE Lacey, WA 98503	Department of Ecology Attn: Appeals Processing Desk PO Box 47608 Olympia, WA 98504-7608
Pollution Control Hearings Board 1111 Israel Road SW STE 301 Tumwater, WA 98501	Pollution Control Hearings Board PO Box 40903 Olympia, WA 98504-0903

CONTACT INFORMATION

Please direct all questions about this Order to:

Laura Inouye
Department of Ecology
Headquarters Office
PO Box 67600
Olympia, WA 98504-7600
(360) 407-6165
Laura.inouye@ecy.wa.gov

MORE INFORMATION

- **Pollution Control Hearings Board Website**
<http://www.eluho.wa.gov/Board/PCHB>
- **Chapter 43.21B RCW - Environmental and Land Use Hearings Office – Pollution Control Hearings Board**
<http://app.leg.wa.gov/RCW/default.aspx?cite=43.21B>
- **Chapter 371-08 WAC – Practice And Procedure**
<http://app.leg.wa.gov/WAC/default.aspx?cite=371-08>
- **Chapter 34.05 RCW – Administrative Procedure Act**
<http://app.leg.wa.gov/RCW/default.aspx?cite=34.05>
- **Chapter 90.48 RCW – Water Pollution Control**
<http://app.leg.wa.gov/RCW/default.aspx?cite=90.48>
- **Chapter 173.204 WAC – Sediment Management Standards**
<http://apps.leg.wa.gov/WAC/default.aspx?cite=173-204>
- **Chapter 173-200 WAC – Water Quality Standards for Ground Waters of the State of Washington**
<http://apps.leg.wa.gov/WAC/default.aspx?cite=173-200>
- **Chapter 173-201A WAC – Water Quality Standards for Surface Waters of the State of Washington**
<http://apps.leg.wa.gov/WAC/default.aspx?cite=173-201A>

SIGNATURE

Dated this 26 day of August 2020 at the Department of Ecology, Olympia Washington



Brenden McFarland, Section Manager
Environmental Review and Transportation Section
Shorelands and Environmental Assistance Program

Attachment A
Statement of Understanding
Water Quality Certification Conditions

Lower Columbia River, J.E. McAmis
Scott Vandergrift
Water Quality Certification Order No. **18253**
and
Corps Reference No. **NWS-2019-00953**

I, _____, state that I will be involved as an agent or contractor for the J.E. McAmis in the site preparation and/or construction of the Lower Columbia River, located in Cowlitz and Wahkiakum Counties, Washington. I further state that I have read and understand the relevant conditions of Washington Department of Ecology Water Quality Certification Order No. 18253 and the applicable permits and approvals referenced therein which pertain to the project-related work for which I am responsible.

Signature

Date

Title

Phone

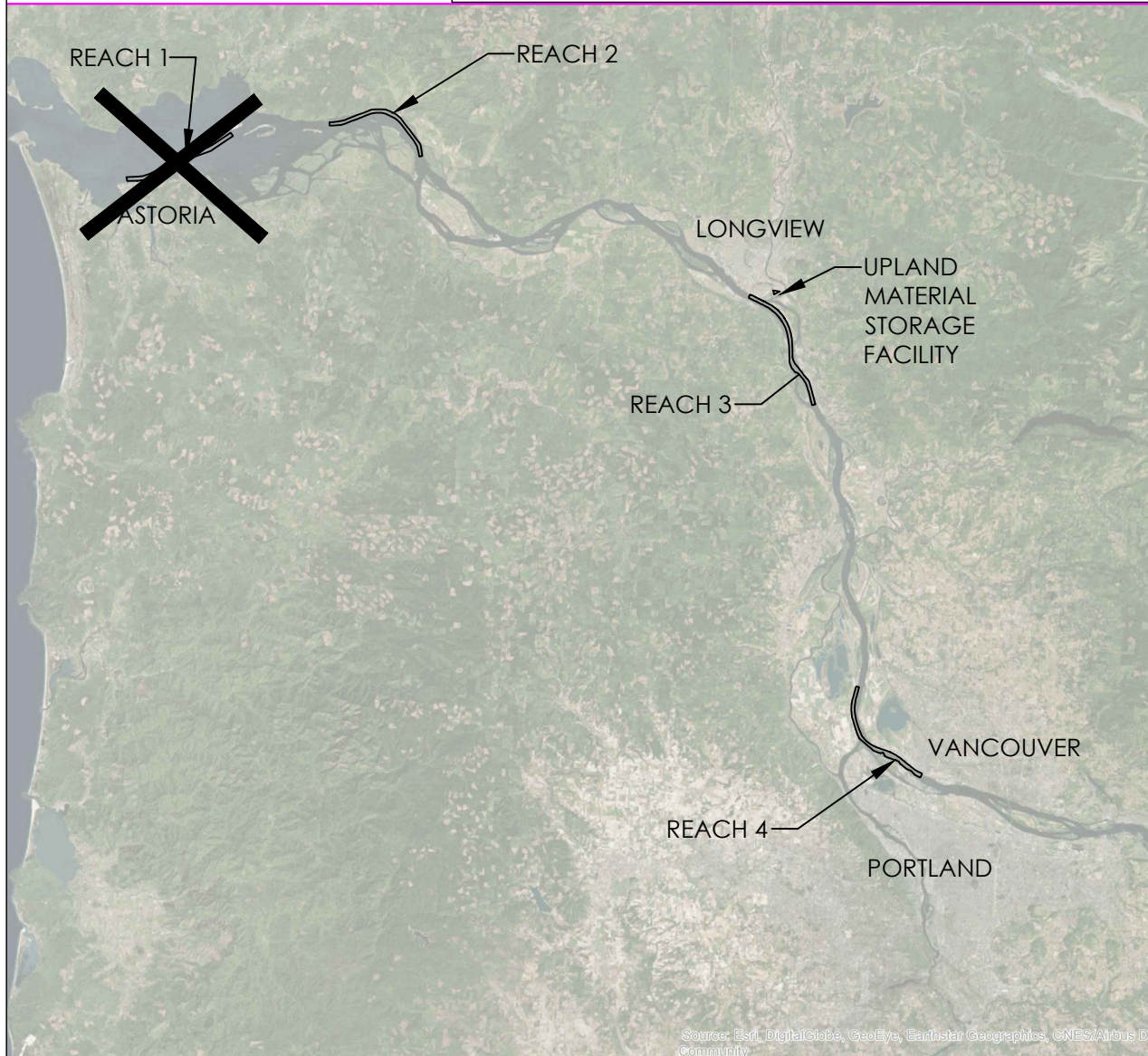
Company

Attachment B

Project maps

SITE VICINITY MAP

PERMIT DOCUMENT



SHEET INDEX:


C0.0 - SITE VICINITY MAP
 C0.1 - UPLAND MATERIAL STORAGE FACILITY MAP
 C1.0 - REACH 2 OVERVIEW
 C1.1 - REACH 2 ENLARGED PLAN & TYP SECTION
 C2.0 - REACH 3 - OVERVIEW
 C2.1 - REACH 3 ENLARGED PLAN & TYP SECTION
 C3.0 - REACH 4 - OVERVIEW
 C3.1 - REACH 4 ENLARGED PLAN & TYP SECTION

ADJACENT PROPERTY OWNERS:

1. PACIFIC FIBRE PRODUCTS, INC.
2. KAPSTONE KRAFT PAPER CORPORATION
3. COWLITZ COUNTY PUBLIC WORKS DEPARTMENT
4. WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES
5. OREGON DEPARTMENT OF STATE LANDS

HORIZONTAL DATUM: NAD83, OREGON STATE PLANE NORTH, US SURVEY FEET
 VERTICAL DATUM: COLUMBIA RIVER DATUM (CRD)

LATITUDE: 46.10° N
 LONGITUDE: 122.91° W

MFA JOB #:	1618.01.01-02	REFERENCE #:	NWP-2019-953
CHECKED:	J. ELLIOTT	APPLICANT NAME:	J.E. MCAMIS, INC.
DRAWN:	E. LUNDEEN	PROPOSED PROJECT:	LOWER COLUMBIA RIVER MAINTENANCE DREGDING
DATE:	10/01/2019	PROJECT ADDRESS:	100 TENNANT WAY LONGVIEW, WASHINGTON
 MAUL FOSTER ALONGI 3140 NE Broadway Street Portland, OR 97232 971.544.2139 (p) 971.544.2140 (f) www.maulfooster.com	WATERWAY: [IF ANY] COLUMBIA RIVER		
	SHEET # OF #: 1 OF 8		

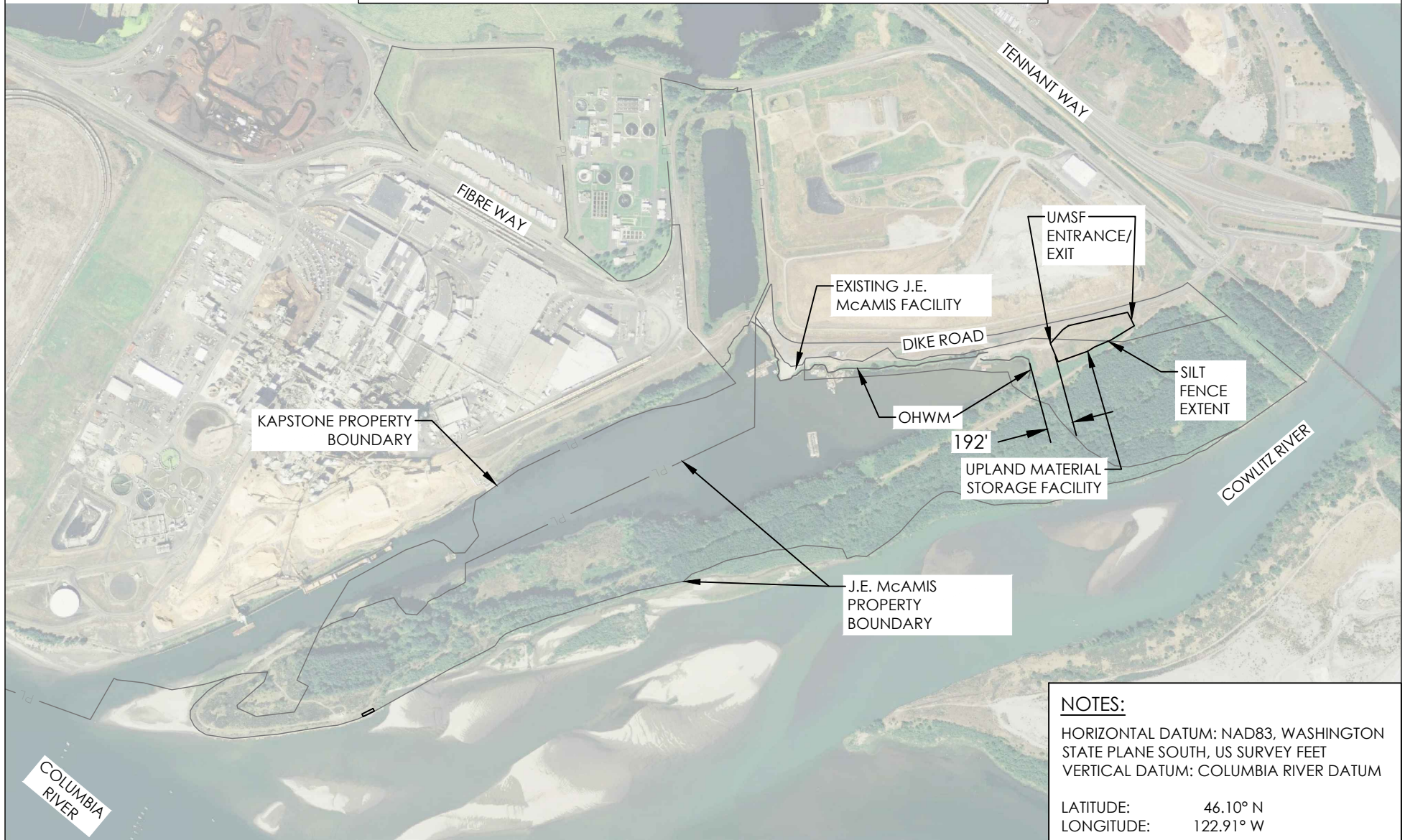


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UPLAND MATERIAL STORAGE FACILITY MAP


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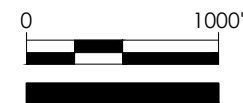
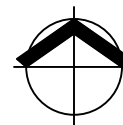


NOTES:

HORIZONTAL DATUM: NAD83, WASHINGTON
STATE PLANE SOUTH, US SURVEY FEET
VERTICAL DATUM: COLUMBIA RIVER DATUM

LATITUDE: 46.10° N
LONGITUDE: 122.91° W

MFA JOB #:	1618.01.01-02	REFERENCE #:	NWP-2019-953
CHECKED:	J. ELLIOTT	APPLICANT NAME:	J.E. MCAMIS, INC.
DRAWN:	M. TARBERT	PROPOSED PROJECT:	LOWER COLUMBIA RIVER MAINTENANCE DREGDING
DATE:	10/01/2019	PROJECT ADDRESS:	100 TENNANT WAY LONGVIEW, WASHINGTON
 MAUL FOSTER ALONGI 3140 NE Broadway Street Portland, OR 97232 971.544.2139 (p) 971.544.2140 (f) www.maulfoster.com	WATERWAY: [IF ANY] N/A		
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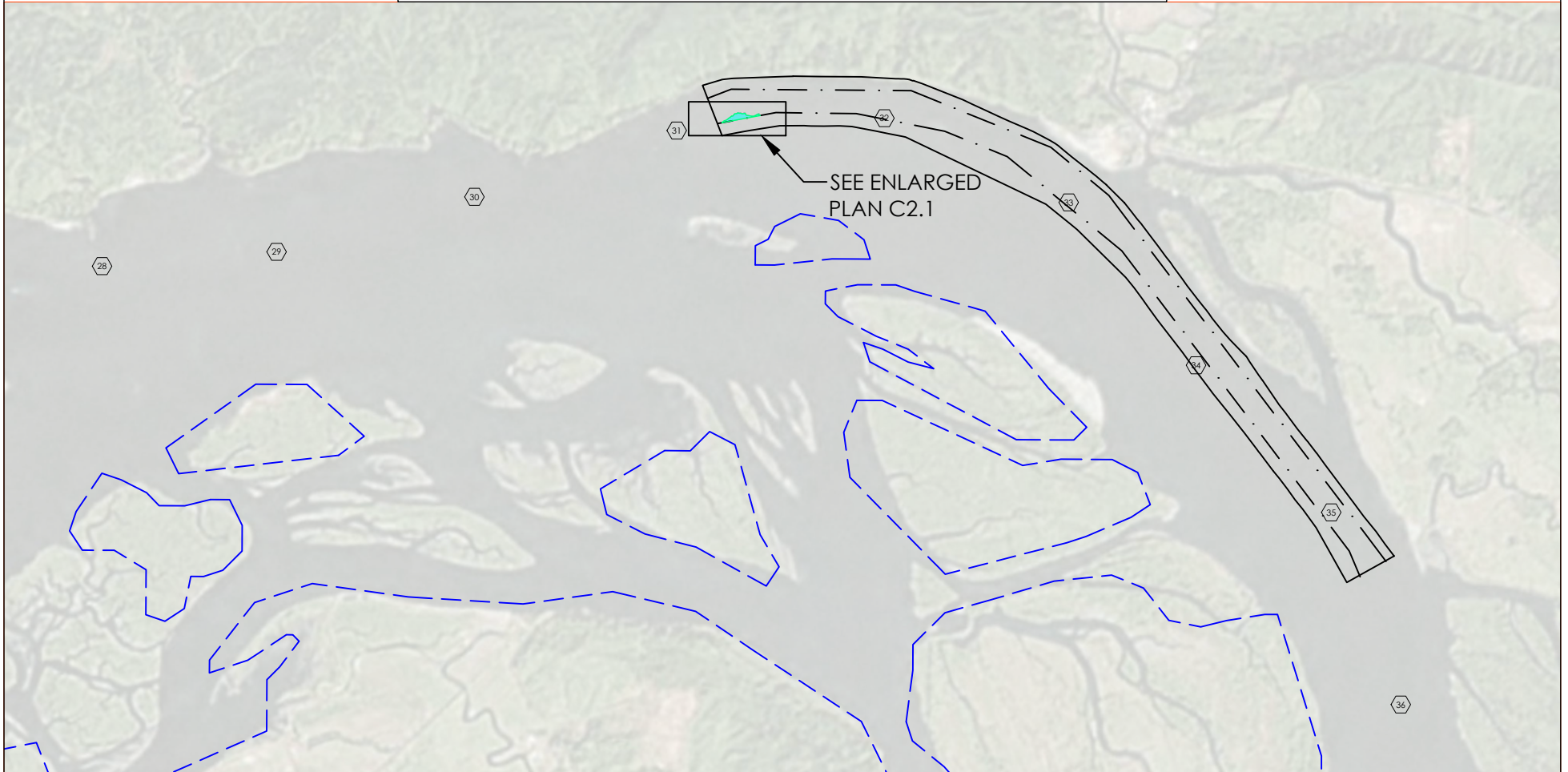


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REACH 2 OVERVIEW

PERMIT DOCUMENT



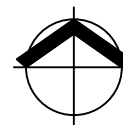
LEGEND:

	EXISTING SHOALING AREA TO BE DREDGED		DREDGE ACTION AREAS		FEDERAL NAVIGATION CHANNEL BOUNDARY		COLUMBIA RIVER MILE MARKER		OREGON/WASHINGTON STATE BOUNDARY
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MFA JOB #: 1618.01.01-02
 CHECKED: J. ELLIOTT
 DRAWN: E. LUNDEEN
 DATE: 08/06/2020

 MAUL FOSTER ALONG
 3140 NE Broadway Street
 Portland, OR 97232
 971.544.2139 (p) 971.544.2140 (f)
 www.maulfooster.com

REFERENCE #: NWP-2019-953
 APPLICANT NAME: J.E. MCAMIS, INC.
 PROPOSED PROJECT: LOWER COLUMBIA RIVER MAINTENANCE DREGDING
 PROJECT ADDRESS: 100 TENNANT WAY
 LONGVIEW, WASHINGTON
 WATERWAY: [IF ANY] COLUMBIA RIVER
 SHEET # OF #: 3 OF 8



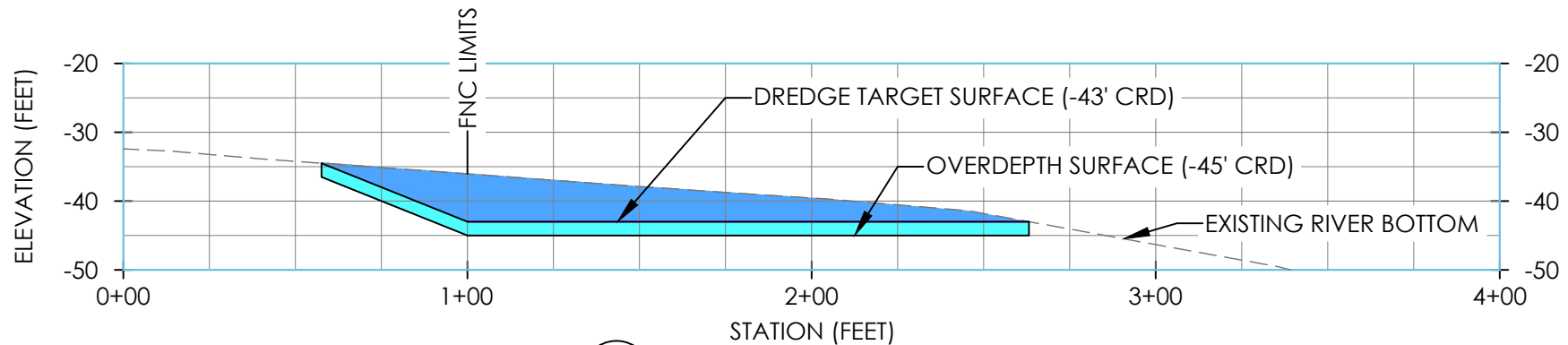
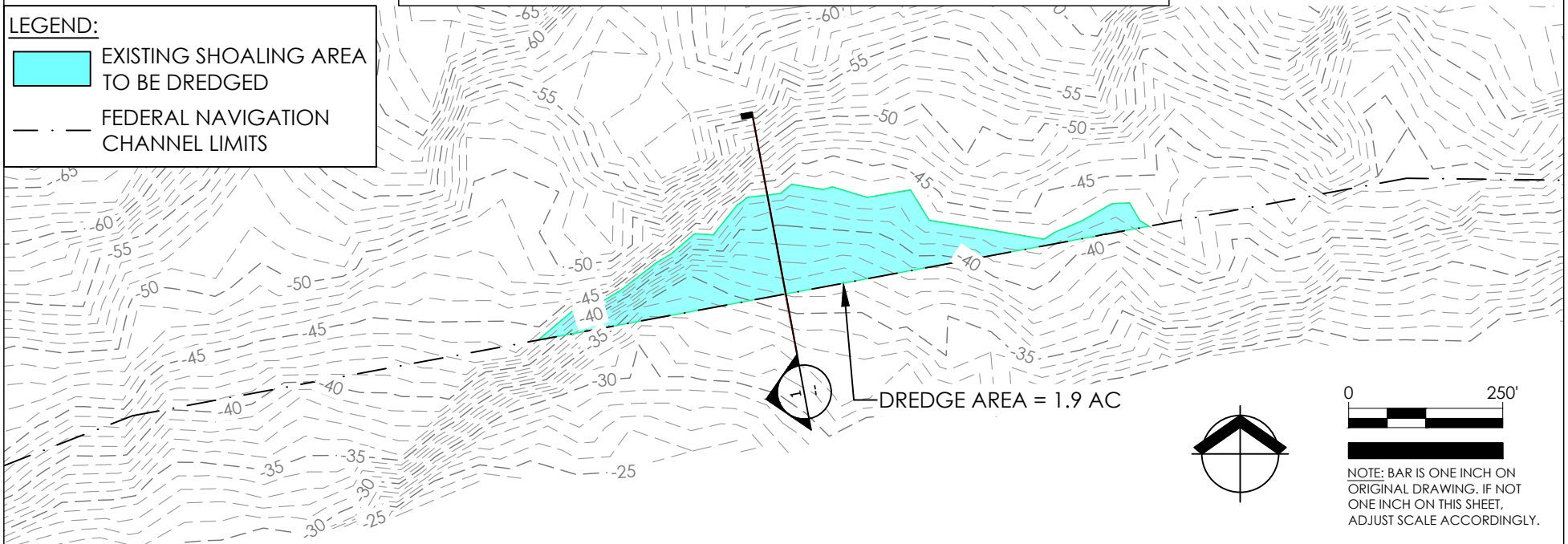
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REACH 2 ENLARGED PLAN & TYPICAL SECTION

LEGEND:

- EXISTING SHOALING AREA TO BE DREDGED
- FEDERAL NAVIGATION CHANNEL LIMITS



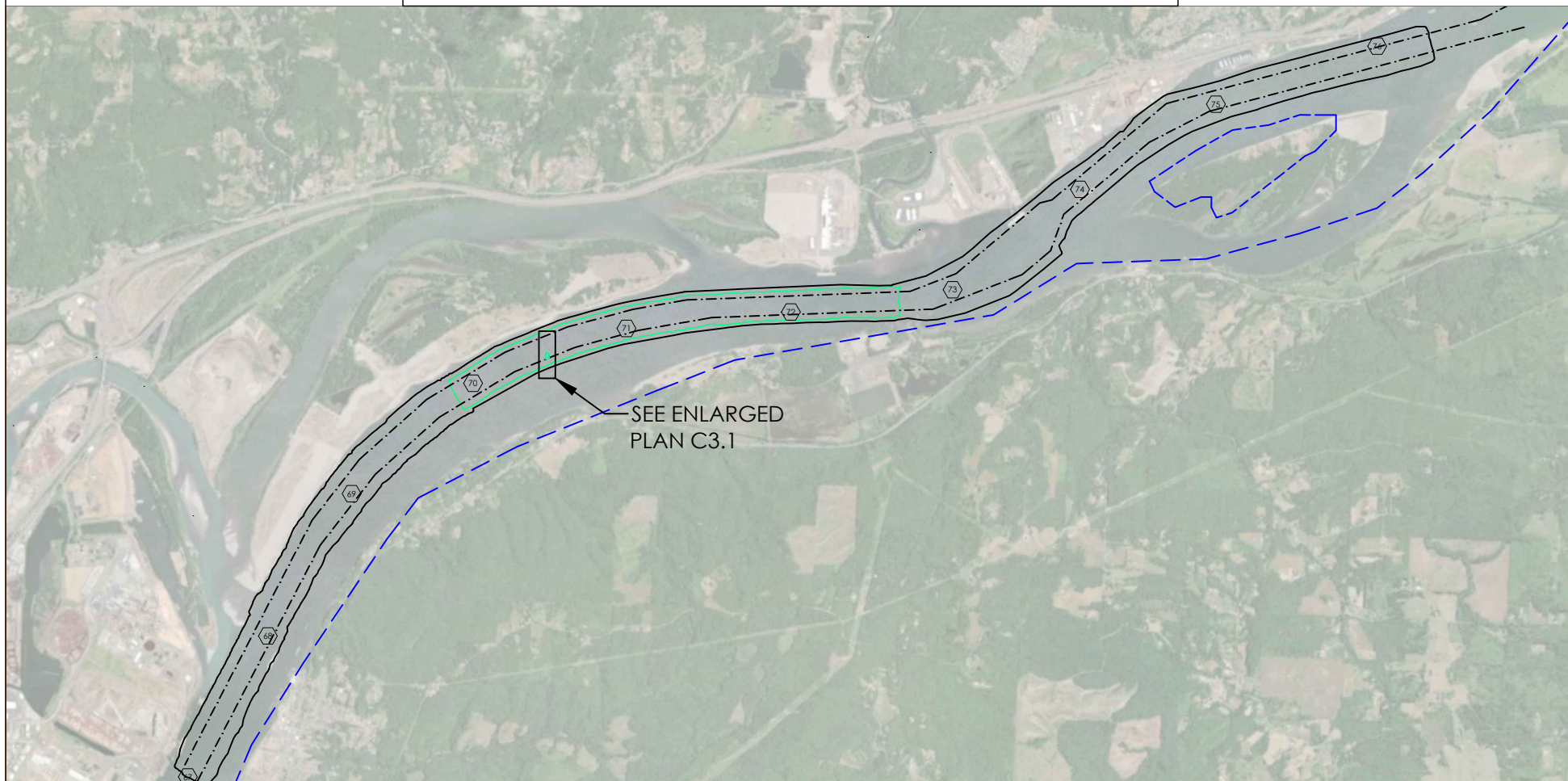
TYPICAL SECTION
HORIZONTAL SCALE 1" = 50'
VERTICAL SCALE 1" = 25'

MFA JOB #:	1618.01.01-02	REFERENCE #:	NWP-2019-953
CHECKED:	J. ELLIOTT	APPLICANT NAME:	J.E. MCAMIS, INC.
DRAWN:	E. LUNDEEN	PROPOSED PROJECT:	LOWER COLUMBIA RIVER MAINTENANCE DREDGING
DATE:	10/01/2019	PROJECT ADDRESS:	100 TENNANT WAY LONGVIEW, WASHINGTON
 MAUL FOSTER ALONGI 3140 NE Broadway Street Portland, OR 97232 971.544.2139 (p) 971.544.2140 (f) www.maulfooster.com		WATERWAY: [IF ANY]	COLUMBIA RIVER
		SHEET # OF #:	4 OF 8

**SHEET
C1.1**


REACH 3 OVERVIEW

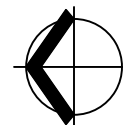
PERMIT DOCUMENT



LEGEND:

	EXISTING SHOALING AREA TO BE DREDGED		DREDGE ACTION AREAS		FEDERAL NAVIGATION CHANNEL BOUNDARY		COLUMBIA RIVER MILE MARKER		OREGON/WASHINGTON STATE BOUNDARY
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 MAUL FOSTER ALONG I 3140 NE Broadway Street Portland, OR 97232 971.544.2139 (p) 971.544.2140 (f) www.maulfoster.com	WATERWAY: [IF ANY] COLUMBIA RIVER		
	SHEET # OF #: 5 OF 8		





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REACH 3 ENLARGED PLAN & TYPICAL SECTION

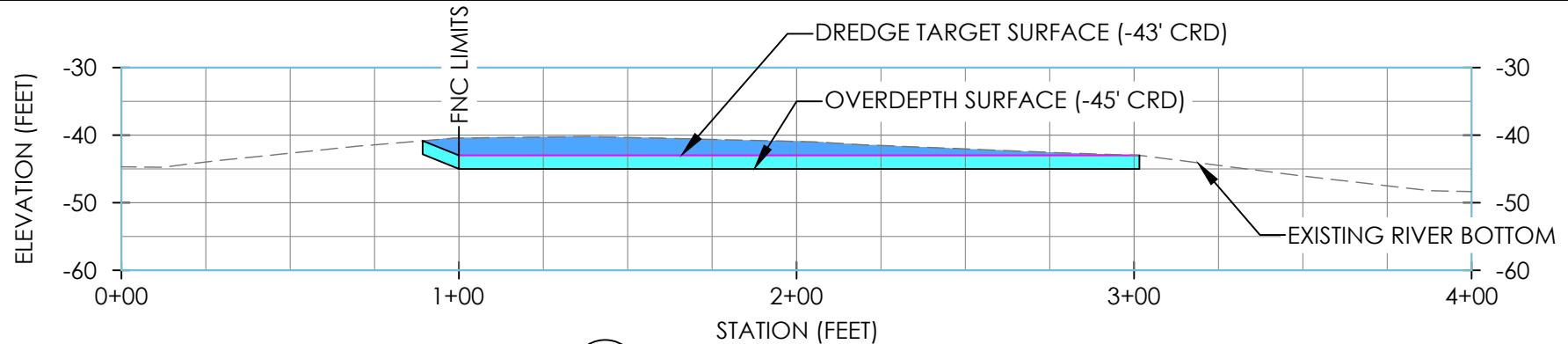
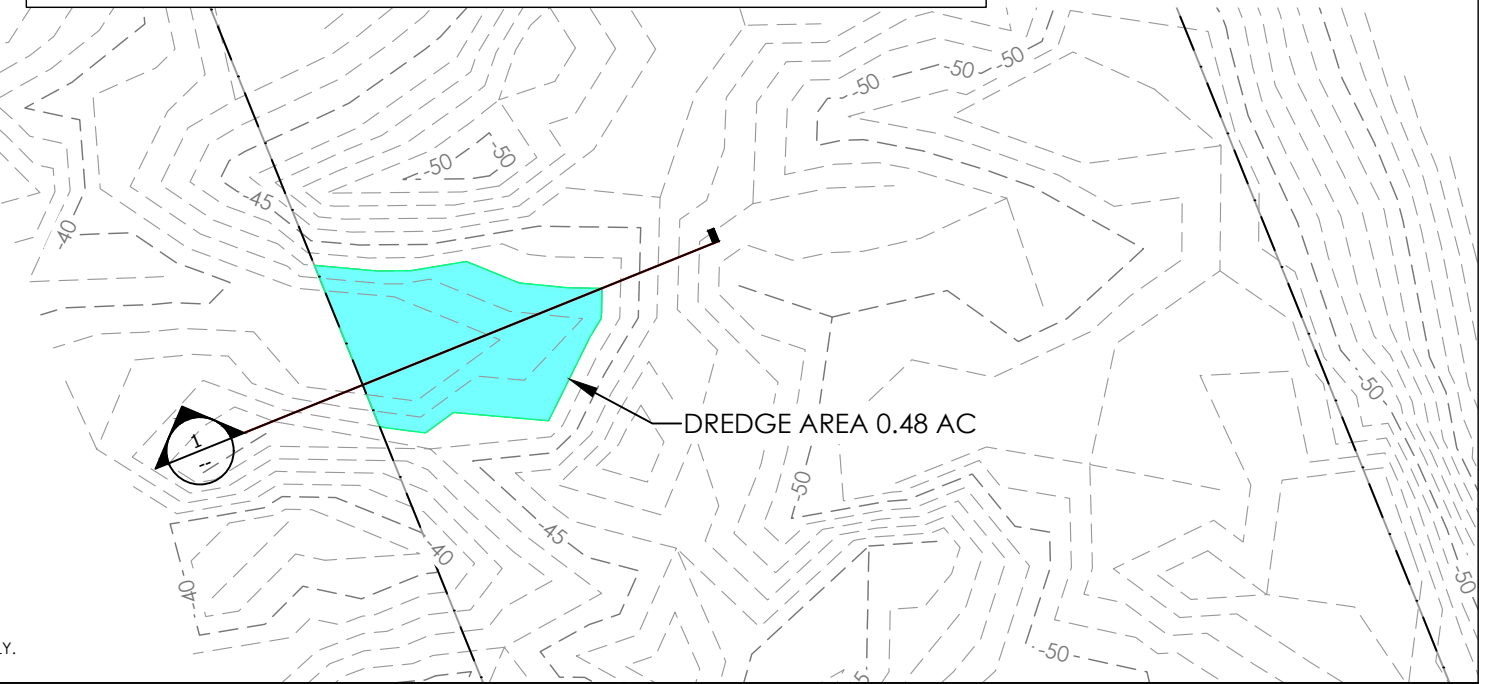
LEGEND:

-  EXISTING SHOALING AREA TO BE DREDGED
-  FEDERAL NAVIGATION CHANNEL LIMITS




0 150'

NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.



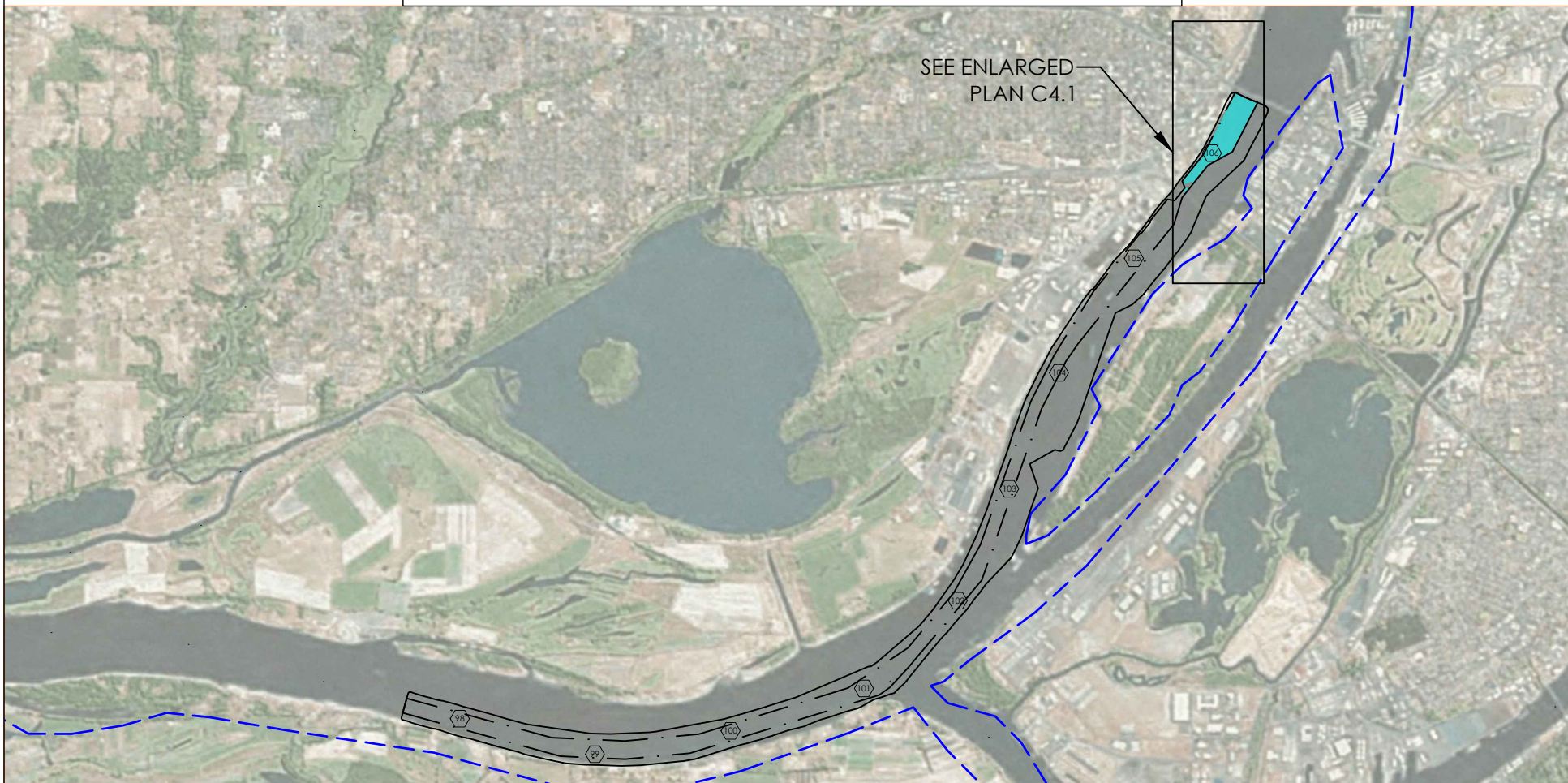
TYPICAL SECTION
HORIZONTAL SCALE 1" = 50'
VERTICAL SCALE 1" = 25'

MFA JOB #:	1618.01.01-02	REFERENCE #:	NWP-2019-953
CHECKED:	J. ELLIOTT	APPLICANT NAME:	J.E. MCAMIS, INC.
DRAWN:	E. LUNDEEN	PROPOSED PROJECT:	LOWER COLUMBIA RIVER MAINTENANCE DREDGING
DATE:	10/01/2019	PROJECT ADDRESS:	100 TENNANT WAY LONGVIEW, WASHINGTON
 MAUL FOSTER ALONG I 3140 NE Broadway Street Portland, OR 97232 971.544.2139 (p) 971.544.2140 (f) www.maulfoster.com	WATERWAY: [IF ANY] COLUMBIA RIVER		
	SHEET # OF #: 6 OF 8		

**SHEET
C2.1**

REACH 4 OVERVIEW

PERMIT DOCUMENT



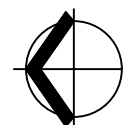
LEGEND:

	EXISTING SHOALING AREA TO BE DREDGED		DREDGE ACTION AREAS		FEDERAL NAVIGATION CHANNEL BOUNDARY		COLUMBIA RIVER MILE MARKER		OREGON/WASHINGTON STATE BOUNDARY
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MFA JOB #: 1618.01.01-02
 CHECKED: J. ELLIOTT
 DRAWN: E. LUNDEEN
 DATE: 10/01/2019

 MAUL FOSTER ALONG
 3140 NE Broadway Street
 Portland, OR 97232
 971.544.2139 (p) 971.544.2140 (f)
 www.maulfooster.com

REFERENCE #: NWP-2019-953
 APPLICANT NAME: J.E. MCAMIS, INC.
 PROPOSED PROJECT: LOWER COLUMBIA RIVER MAINTENANCE DREDGING
 PROJECT ADDRESS: 100 TENNANT WAY
 LONGVIEW, WASHINGTON
 WATERWAY: [IF ANY] COLUMBIA RIVER
 SHEET # OF #: 7 OF 8



NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

SHEET
 C3.0

REACH 4 ENLARGED PLAN & TYPICAL SECTION

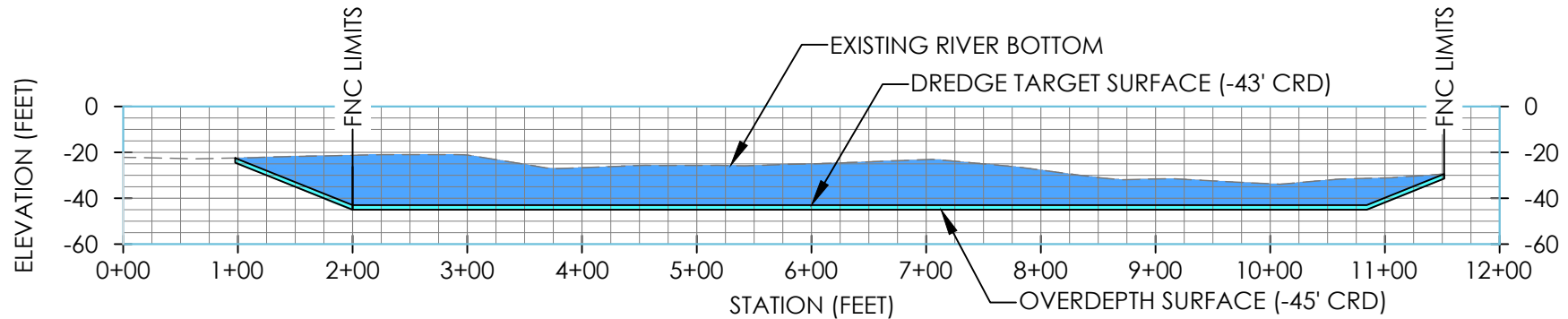
LEGEND:

- EXISTING SHOALING AREA TO BE DREDGED
- FEDERAL NAVIGATION CHANNEL LIMITS




NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

DREDGE AREA: 69.2 AC



TYPICAL SECTION
HORIZONTAL SCALE 1" = 150'
VERTICAL SCALE 1" = 75'

MFA JOB #:	1618.01.01-02	REFERENCE #:	NWP-2019-953
CHECKED:	J. ELLIOTT	APPLICANT NAME:	J.E. MCAMIS, INC.
DRAWN:	E. LUNDEEN	PROPOSED PROJECT:	LOWER COLUMBIA RIVER MAINTENANCE DREDGING
DATE:	10/01/2019	PROJECT ADDRESS:	100 TENNANT WAY LONGVIEW, WASHINGTON
 MAUL FOSTER ALONG I 3140 NE Broadway Street Portland, OR 97232 971.544.2139 (p) 971.544.2140 (f) www.maulfooster.com		WATERWAY: [IF ANY]	COLUMBIA RIVER
		SHEET # OF #:	8 OF 8

**SHEET
C3.1**