FISHERIES AND OCEANS CANADIAN ENVIRONMENTAL ASSESSMENT ACT (CEAA) 2012

PROJECT EFFECTS DETERMINATION REPORT

GENERAL INFORMATION

1.	Project Title: Finger Pier Extension, Old Perlican	, Newfoundland
2	Proponent: Fisheries and Oceans Canada, Small	Craft Harbours (DFO SCH)
3. Con	Other Contacts (Other Proponent, Consultant or tractor): Public Works and Government Services Canada	4. Role: OGD Consultant
5.	Source of Project Information: Paul Curran, Reg	gional Engineer, DFO Small Craft Harbours
6.	Project Review Start Date: April 20, 2020	
7.	PATH No.: TBD	8. PWGSC File No: R.104660.012
9.	TC File No.: 2020-202375	

BACKGROUND

10. Background about Proposed Development (including a description of the proposed development):

DFO, Small Craft Harbours are proposing to extend the existing finger pier structure in Old Perlican, Newfoundland (See Appendix A).

PROJECT REVIEW

11. DFO's rationale for the project review:	
Project is on federal land $\boxtimes and$;	
DFO is the proponent	
DFO to issue <i>Fisheries Act</i> Authorization or <i>Spec</i>	ies at Risk Act Permit
DFO to provide financial assistance to another pa	rty to enable the project to proceed
DFO to lease or sell federal land to enable the pro	pject to proceed
Other	
12. Fisheries Act Sections (if applicable):	
n/a	
 13. Other Authorities Transport Canada – Navigation Protection Program (NPP) and Environmental Affairs and Aboriginal Consultation Unit 	 14. Other Authorities rationale for involvement: Canadian Navigable Waters Act

16. Other Expert Departments Providing Advice:

 Fisheries and Oceans Canada, Fisheries Protection Program (DFO-FPP)

17. Areas of Interest of Expert Departments:

Fisheries Act

18. Other Contacts and Responses: n/a

19. Scope of Project (details of the project subject to review):

Project Description

DFO, Small Craft Harbours are proposing to extend the existing finger pier structure in Old Perlican, Newfoundland. The wharf extension will be crib and span construction, consisting of 2 new cribs and spans, measuring approximately 7.6m wide by 21.3m long. The structure will have a reinforced concrete deck. There may be some minor excavation required to seat the new cribs (See Appendix A).

Standard finger pier construction methods and equipment will likely be utilized. Stone required for the project will be obtained from an approved quarry in an upland location and trucked to the site. Heavy equipment consisting primarily of excavators and dump trucks working from the existing paved access to place the stone in location. There will be a small amount of material excavated for crib seat for the two cribs, since this wharf is a crib and span this material will be placed in the spans and covered with scour protection.

Operation/Maintenance

The Environmental Management System with an integrated Environmental Management Plan for the Harbour Authority of Old Perlican will cover operational aspects of environmental management at the harbour (fuelling, waste disposal, activities on the property and water). As such, environmental effects resulting from the SCH operations are not considered further in this project effects determination.

Decommissioning

This facility is not presently planned to be decommissioned. At the time of decommissioning, Small Craft Harbours will develop a site-specific re-use or reclamation plan that is appropriate for the applicable environmental legislation and Fisheries and Oceans Canada policies.

Scheduling

The proposed project is scheduled to commence during the 2020-2021 fiscal year. Project commencement is subject to DFO SCH operational priorities and funding.

20. Location of Project:

The Project site may be accessed from local roads within the community of Old Perlican, which is accessible via provincial route 80, at coordinates 480 05' 16" N, 530 00' 29" W.

21. Environment Description:

Physical Environment

Old Perlican is located approximately 110 km northeast of Whitbourne off route 80. The Old Perlican harbor is an extensively developed area consisting of a harbour authority office, electrical/gear sheds, slipways, finger piers, floating docks, breakwaters and a paved parking area. The project site is located within the Northeastern Barrens Subregion of the Maritime Barrens Ecoregion. This subregion has lower fog frequency and somewhat warmer summers compared to subregions B and C.

Biological Environment

Within the northeastern barrens subregion Arctic-alpine species are absent from the heath vegetation and Yellow Birch is absent from the forest. The landscape is extensively forested with local heath vegetation particularly along the coast. The tills in the area are generally a shallow rolling ground moraine with sandy loam to loam texture. The Hylocomium-Balsam Fir type occupies mid-slopes and it is usually associated with gleyed podzols or gleysols.

Fauna within the project area is limited to nearshore fish species such as cunner, tomcod, sculpin, and winter flounder. Aquatic vegetation in the project area, though not abundant, consists of kelp, moss, and sea grass.

Species at Risk (Aquatic and Terrestrial)

A search of the Atlantic Canada Conservation Data Centre (ACCDC) database was conducted on May 22, 2020 that produced a list of rare / unique species (i.e., plants and animals) within a 5 km buffer zone (standard ACCDC procedure) of the site of the proposed work. All species were cross-referenced with Schedule 1 of the Species at Risk Act (SARA); Larus argentatus (Herring Gull), Larus marinus (Great Black-backed Gull), Rhinanthus minor (common yellowrattle) and Agrostis canina (Brown Bentgrass) were reported within this buffer.

22. Scope of Effects Considered (sections 5(1) and 5(2)):

Table 1: Potential Project / Environment Interactions Matrix

	As per Section 5(1)			ection			S	ection 5	(2)	Due Diligence			è	
		3(1)		Abo	riginal	Inter	est							
Project Phase / Physical Work/Activity	Fish (Fisheries Act)	Aquatic Species (SARA)	Birds (MBCA)	Health and Socio economic	Physical and cultural heritage	Fand use	*HAPA Significance	Health and Socio economic	Physical and cultural heritage	*HAPA Significance	Water (ground, surface, drainage, etc)	Terrestrial / Aquatic Species	Soil/Marine sediments	Air Quality
Finger Pier Extension														
Finger Pier Extension Construction	Ρ	-	Ρ	-	-	-	-	Ρ	-	-	Ρ	Ρ	Ρ	Ρ
Dredging	Ρ	-	Р	-	-	-	-	Р	-	-	Р	Р	Ρ	Р
Operation / Maintenance	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Decommissioning / Abandonment	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*structure, site or thin Legend									cal or <u>a</u> ro - ' = No II			hificance).	

23. Environmental Effects of Project:

In the table above, potential environmental effects were identified. Scoped project activities such as dredging, disposal, wharf construction and infilling have the potential to effect the environment. Each of the potential effects are addressed here:

Fish / Fish Habitat

- Sedimentation and/or increased turbidity as a result of dredging, demolition or placement of construction materials may negatively impact fish and quality of potential fish habitat.
- Accidental discharge of heavy machinery fuel/fluids will negatively impact fish and potential fish habitat.

Bird/Bird Habitat

- Any type of hydrocarbon spill could result in bird or bird habitat loss.
- Noise / fumes may result in birds avoiding the site and surrounding area.

Health and Socio economic

• Potential for safety hazards to workers during demolition activities.

Water

- Sedimentation and/or increased turbidity as a result of dredging, demolition or placement of construction materials may decrease marine water quality at immediate project site.
- Demolition and construction activities taking place near the shoreline may result in run off / erosion.
- Accidental discharge of heavy machinery fuel/fluids will result in a decrease of marine water quality.

Aquatic species

- Sedimentation and/or increased turbidity as a result of removal of the existing wharf may negatively impact aquatic species near project site.
- Accidental discharge of heavy machinery fuel/fluids may negatively impact aquatic species near project site.

Soil (Surface and Subsurface)/Marine Sediments

- Demolition and construction activities at site or natural events (e.g. rainfalls) could result in erosion, sedimentation and/or increased turbidity.
- Improper disposal of waste material could result in contamination of soil.

Air Quality / Noise

• Some minor disruptions and annoyance to facility users and residents who live near the project site can be anticipated from project activities and the use of heavy equipment.

Navigation

• Potential for direct effects to navigation.

24. Mitigation Measures for Project (including Habitat Compensation):

Minimize duration of in water work.

Conduct instream work during periods of low flow, or at low tide, to further reduce the risk to fish and their habitat or to allow work in water to be isolated from flows.

Work should be scheduled to avoid periods of heavy precipitation. Erosion control structures (temporary matting, geotextile filter fabric) are to be used, as appropriate, to prevent erosion and release of sediment and/or sediment laden water during the demolition phase.

The in-water use of heavy equipment is not permitted. The operation of such equipment should be from dry / stable shoreline areas.

Work should be properly timed to avoid potential interference with commercial and/or recreational fisheries.

Appropriate sedimentation and/or increased turbidity control measures (e.g. silt curtains, booms, etc.), should be deployed where required.

All wastes should be recycled where possible or otherwise disposed of appropriately.

Remove all construction materials from site upon completion.

There should be no sedimentation and/or increased turbidity events as a result of proposed activities. If required, mitigation measures must be implemented such as installation of a turbidity barrier, construction of sediment ponds, etc.

Machinery should be well muffled and local municipality construction by-laws must be adhered to.

Machinery must be checked for leakage of lubricants or fuel and must be in good working order. Refueling must be done at least 100 m from any water body. Basic petroleum spill clean-up equipment should be on-site. All spills or leaks should be promptly contained, cleaned up and reported to the 24hour environmental emergencies report system (1-800-563-9089). The proponent should consider developing a contingency plan specific to the proposed undertaking to enable a quick and effective response to a spill event.

Weather conditions should be assessed on a daily basis to determine the potential risk on project activities.

Several environmental approvals / permits have been obtained on behalf of SCH. These include:

- 1. Transport Canada may provide approval under the Navigation Protection Act (NPA).
- 2. Fisheries and Oceans provided a letter of advice for the project outlining mitigation measures for the protection of fish and fish habitat.
- 3. NLDMAE provided Water Resources Permit to Alter a Water Body Minor Dredging Permit.

These approvals are attached in Appendix C and all conditions/mitigation measures must be reviewed a nd implemented by the contractor.

The project is covered under NL DMAE Terms & Conditions, and the conditions associated with Transport Canada's, Navigation Protection Act authorization. Fisheries and Oceans Canada, Fisheries Protection Program determined that the project would likely not result in Serious Harm to fish or fish habitat and prescribed several mitigation measures to help mitigate potential environmental impacts (included above).

The proponent should ensure that copies of all regulatory approvals are available on-site during project activities.

Workers in contact with hazardous materials (e.g. wastes) must be provided with and use appropriate personal protective equipment;

Proper safety procedures must be followed during the duration of the project as per applicable municipal, provincial, and federal regulations;

Employees will be trained in health and safety protocols (e.g. safe work practices, emergency response).

Environmental effects of the project on navigation are taken into consideration as part of the Project Effects Determination (PED) only when the effects are indirect, i.e. resulting from a change in the environment affecting navigation. Direct effects on navigation are not considered in the PED, but any measures necessary to mitigate direct effects will be included as terms and conditions associated with the work approved or permitted pursuant to the Navigation Protection Act.

25. Significance of Adverse Environmental Effects of project:

Significant adverse environmental effects are unlikely, taking into account mitigation measures.

26. Other Considerations (Public Consultation, Aboriginal Consultation, Follow-up)

Public Consultation

No negative public concern is expected as a result of this project. As such, public consultation was not deemed necessary as part of this determination. Although public consultation was not deemed necessary, the project was posted on the IAA registry for public comments on May 15, 2020 (Refer ence Number 80696).

Aboriginal Consultation

Aboriginal fishers are not known to utilize the Old Perlican SCH facility, nor are there any known aboriginal groups in the surrounding area. As such, aboriginal consultation was not deemed necessary as part of this determination

Government Consultation

Federal and provincial authorities likely to have an interest in the project were consulted by Public Works & Government Services Canada, Environmental Services, during the course of this assessment. A project description was distributed to the following authorities:

- Fisheries and Oceans Canada Fisheries Protection Program
- Transport Canada Navigation Protection Program and Environmental Affairs and Aboriginal Consultation Unit
- NL Department of Municipal Affairs and Environment, Water Resources (NLDMAE WR)

Accuracy and Compliance Monitoring

A follow-up program (as defined in S. 2(1) and as applicable to non-designated projects on federal lands) is a program for determining the effectiveness of any mitigation measures. Site monitoring (accuracy and compliance monitoring) may be conducted to verify whether required mitigation measures were implemented. The proponent must provide site access to Responsible Authority 27. Officials and/or its agents upon reques

27. Monitoring and Compliance Requirements (e.g. *Fisheries Act* or *Species at Risk Act* requirements)

n/a

CONCLUSION

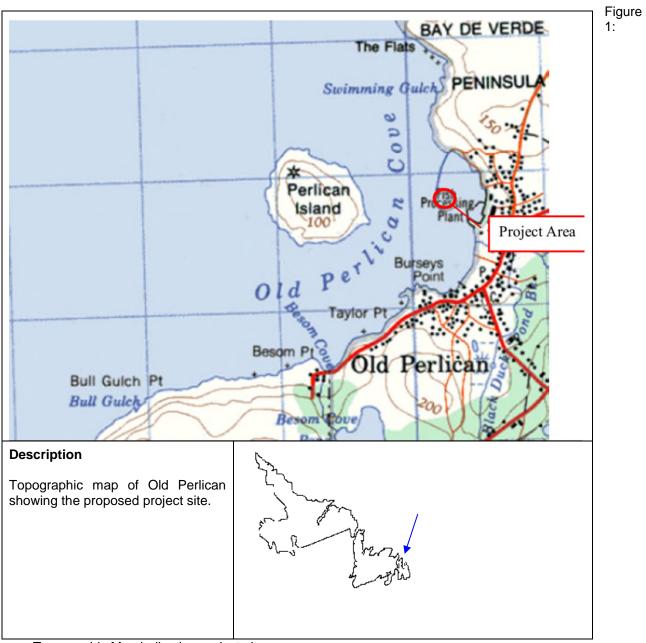
28. Conclusion o	n Significance of Adverse Environmental Effects:
Environmental determined that	uthority has evaluated the project in accordance with Section 67 of <i>Canadian</i> Assessment Act (CEAA), 2012. On the basis of this evaluation, the department has at the project is not likely to cause significant adverse environmental effects with therefore can proceed using mitigative measures as outlined.
29. Prepared by: 31. Name:	Natasha Warren 30. Date: July 10, 2020
32. Title:	Environmental Specialist, PWGSC-ES

DECISION

33. Decision Take	n
project is no	ercise its power, duty or function, i.e. may issue the authorization - where the ot likely to cause significant adverse environmental effects. Confirm below the ver, duty or function that may be exercised.
DFO to	issue <i>Fisheries Act</i> Authorization or <i>Species at Risk Act</i> Permit proceed with project (as proponent) provide financial assistance for project to proceed provide federal land for project to proceed
cause signif DFO to ask	ecided not to exercise its power, duty or function because the project is likely to icant adverse environmental effects. the Governor in Council to determine if the significant adverse environmental ustified in the circumstances
34. Approved by:	35. Date:
36. Name:	Paul Curran
37. Title:	Regional Engineer, DFO-SCH, NL
38. References:	n/a

APPENDICES

-Appendix A: Topographic Map and Aerial Photograph -Appendix B: Site Plan -Appendix C: Regulatory Responses/Approvals Appendix A Topographic Map and Aerial Photograph



Topographic Map indicating project site.

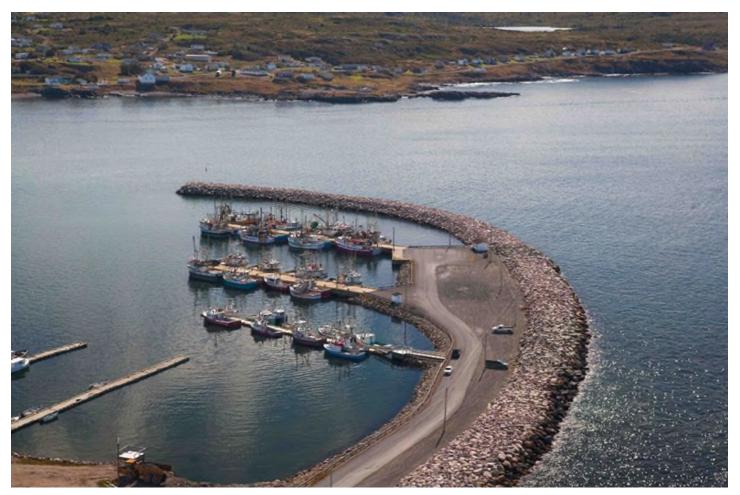


Figure 2: photo of existing project site.

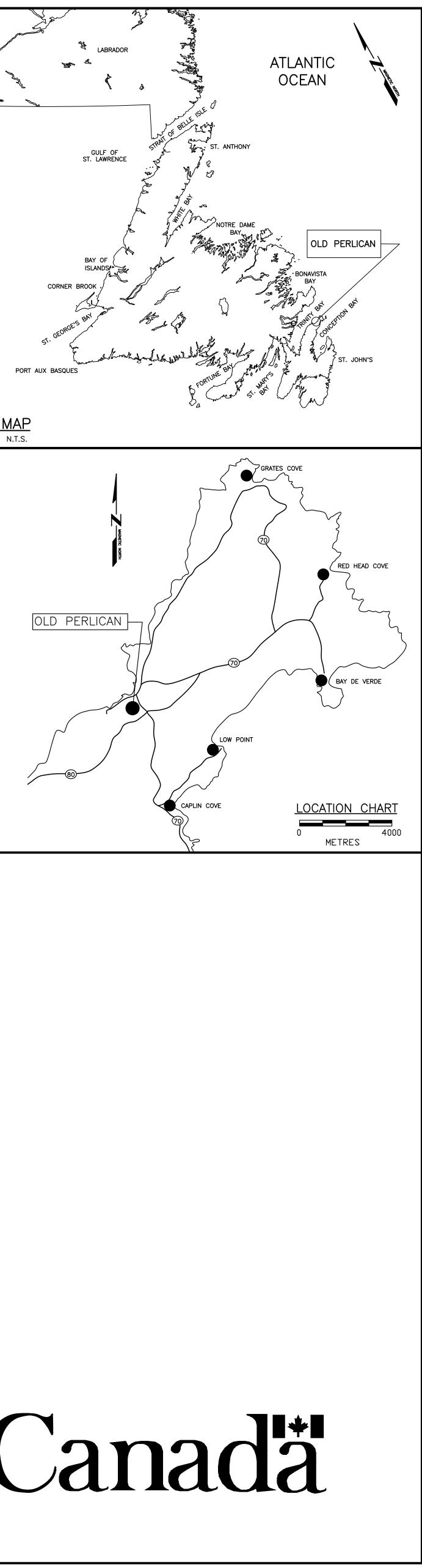
Appendix B Site plan



ceans	Pêches Canada	et	Océans	

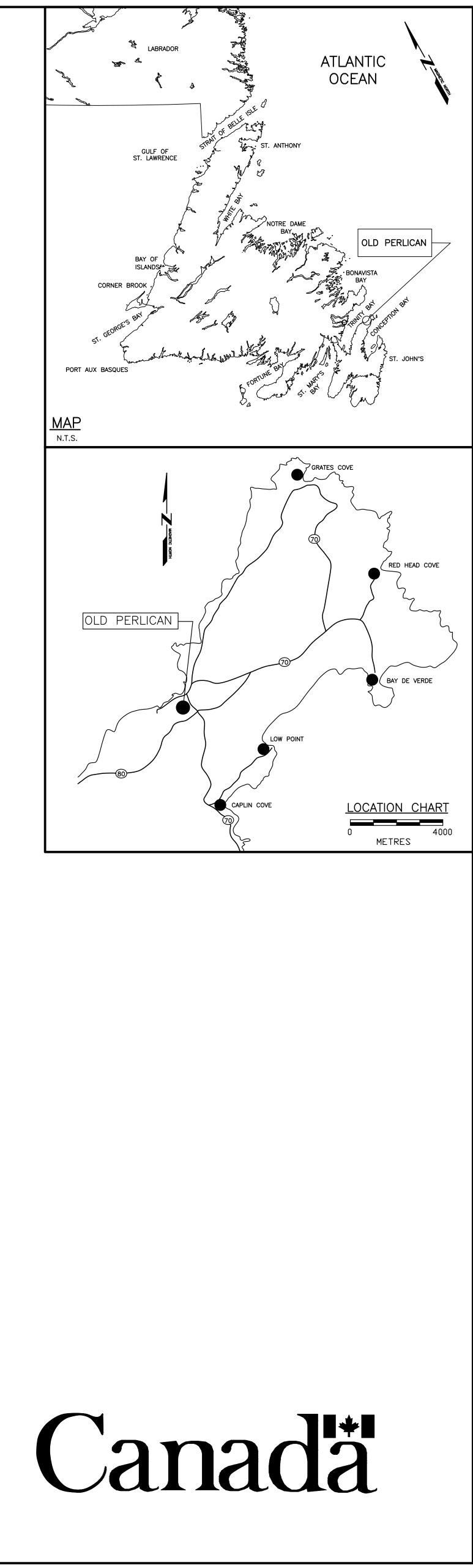
Ports Pour Petits Bateaux

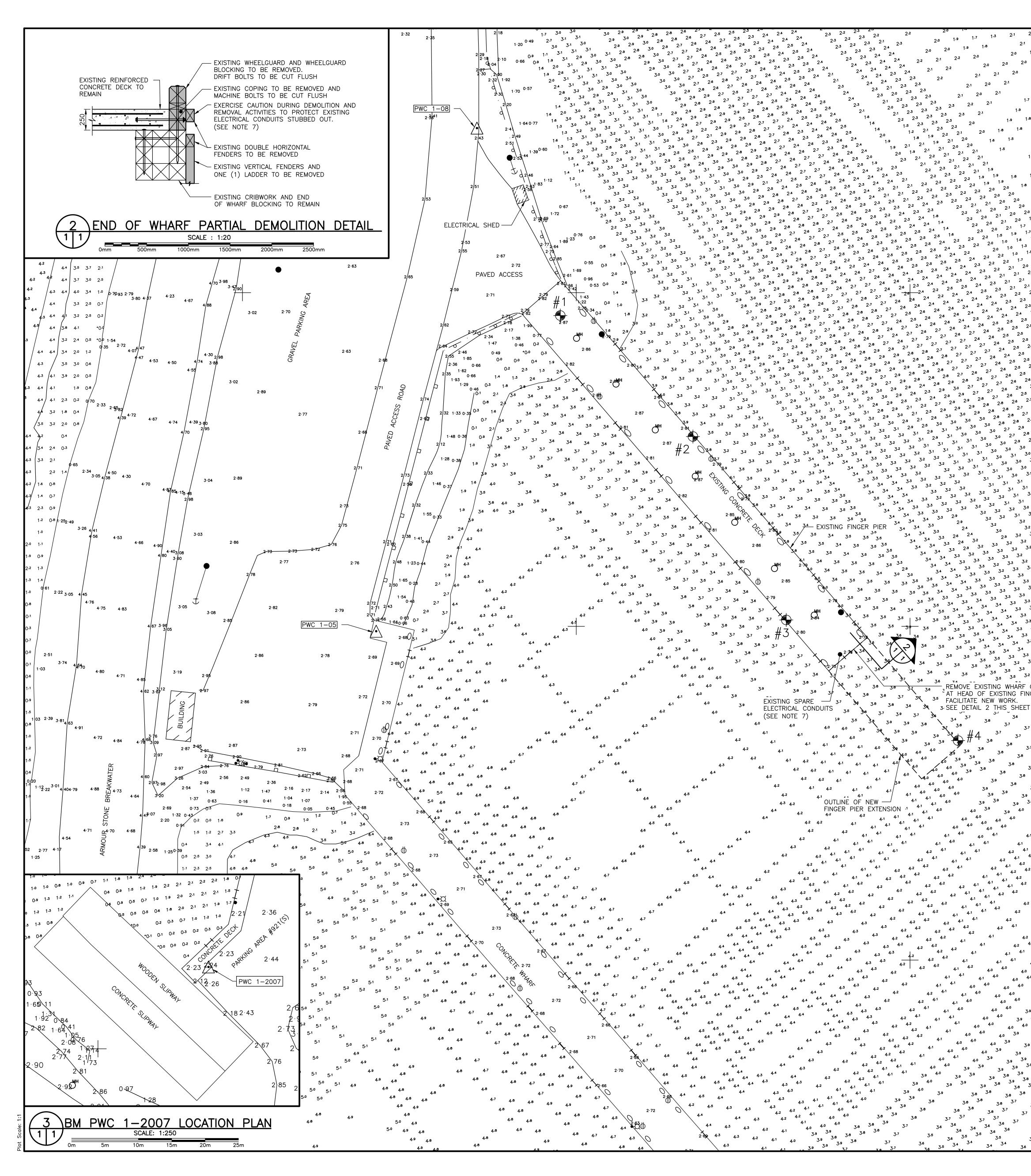
<u>CIVIL</u> C1 C2 C3 C4 C5 C6 C7



DRAWING LIST

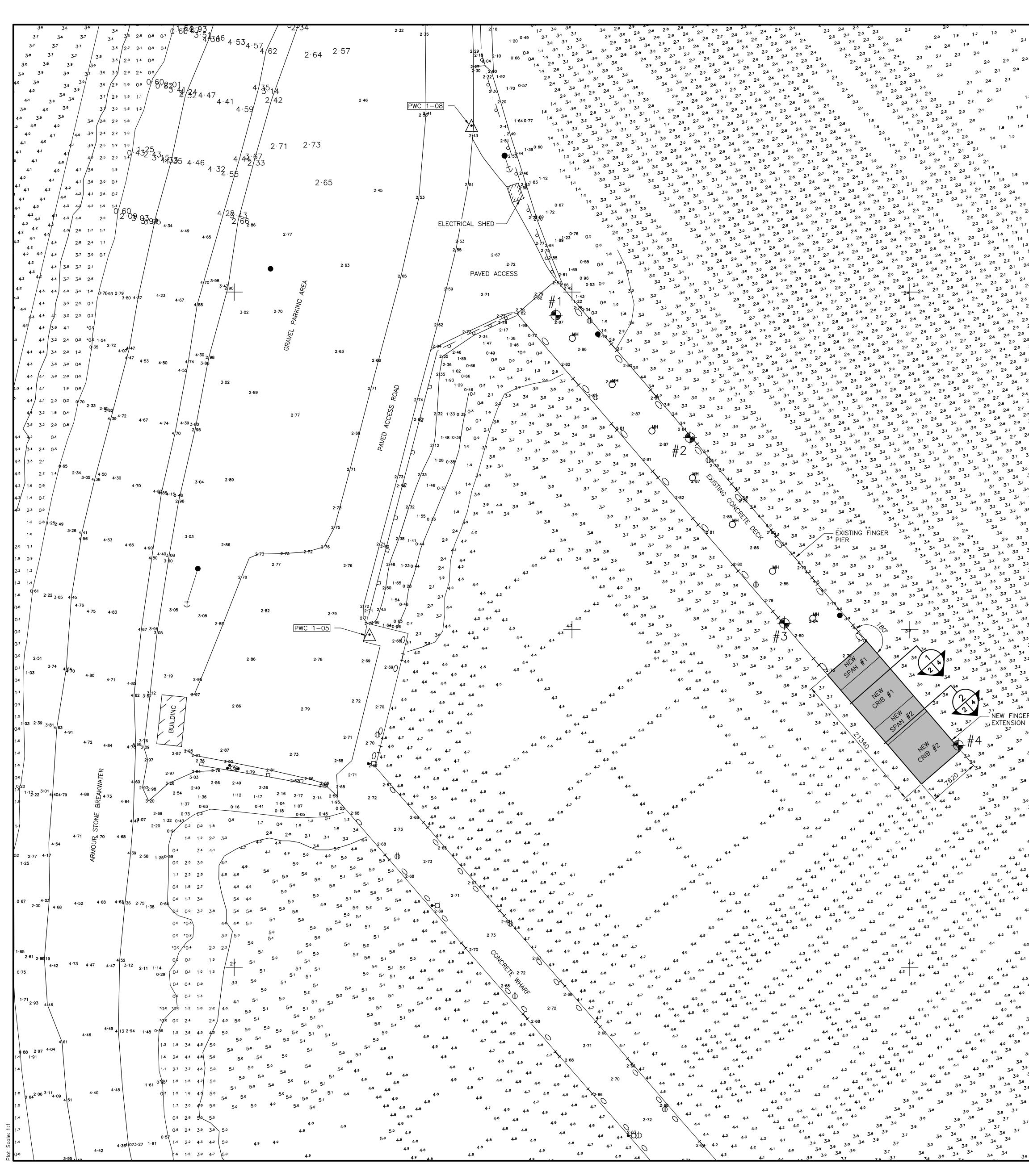
OF 7	EXISTING SITE PLAN
OF 7	NEW SITE PLAN
OF 7	PLAN, ELEVATION AND COMPONENT PLAN
OF 7	NEW FINGER PIER SECTIONS
OF 7	DETAILS SHEET 1
OF 7	DETAILS SHEET 2
OF 7	BOREHOLE LOGS





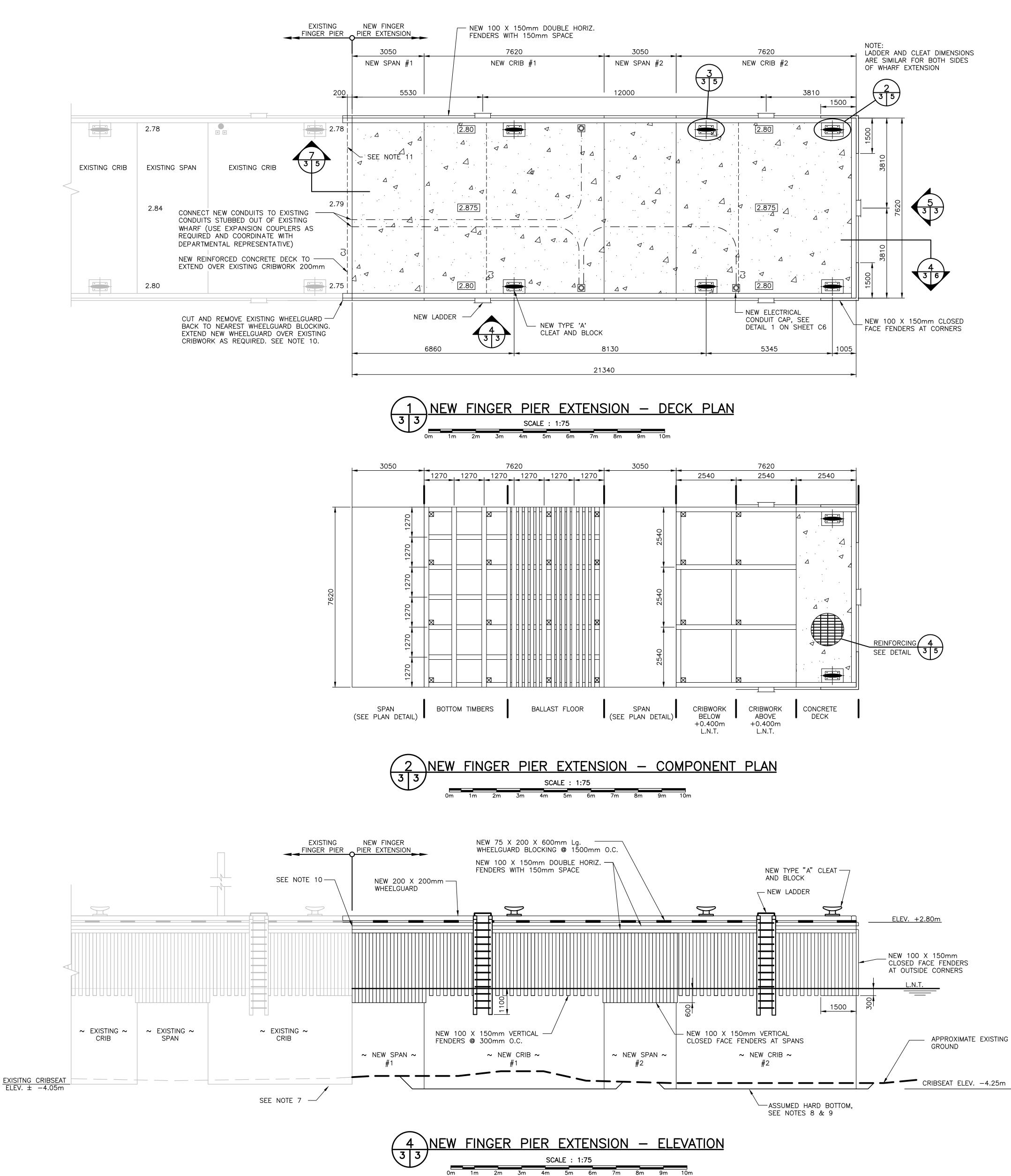
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SOUNDINGS WERE REDUCED BY DIGITRACE & RE-CHECKED FROM SOUNDING CHARTS BEFORE BEING CORRECTED FOR TIDE & BAR CHECK CORRECTION.	AND & LAND
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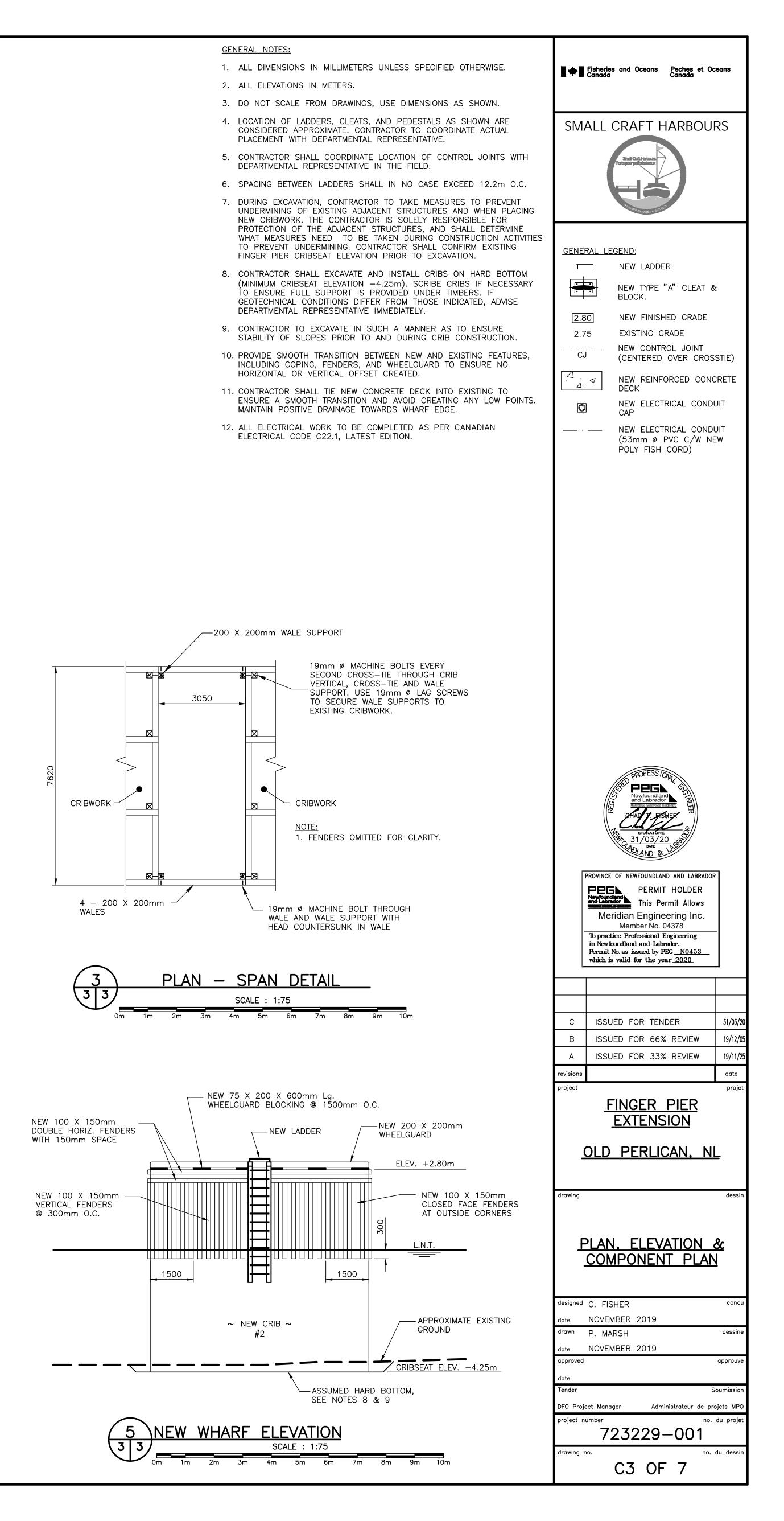


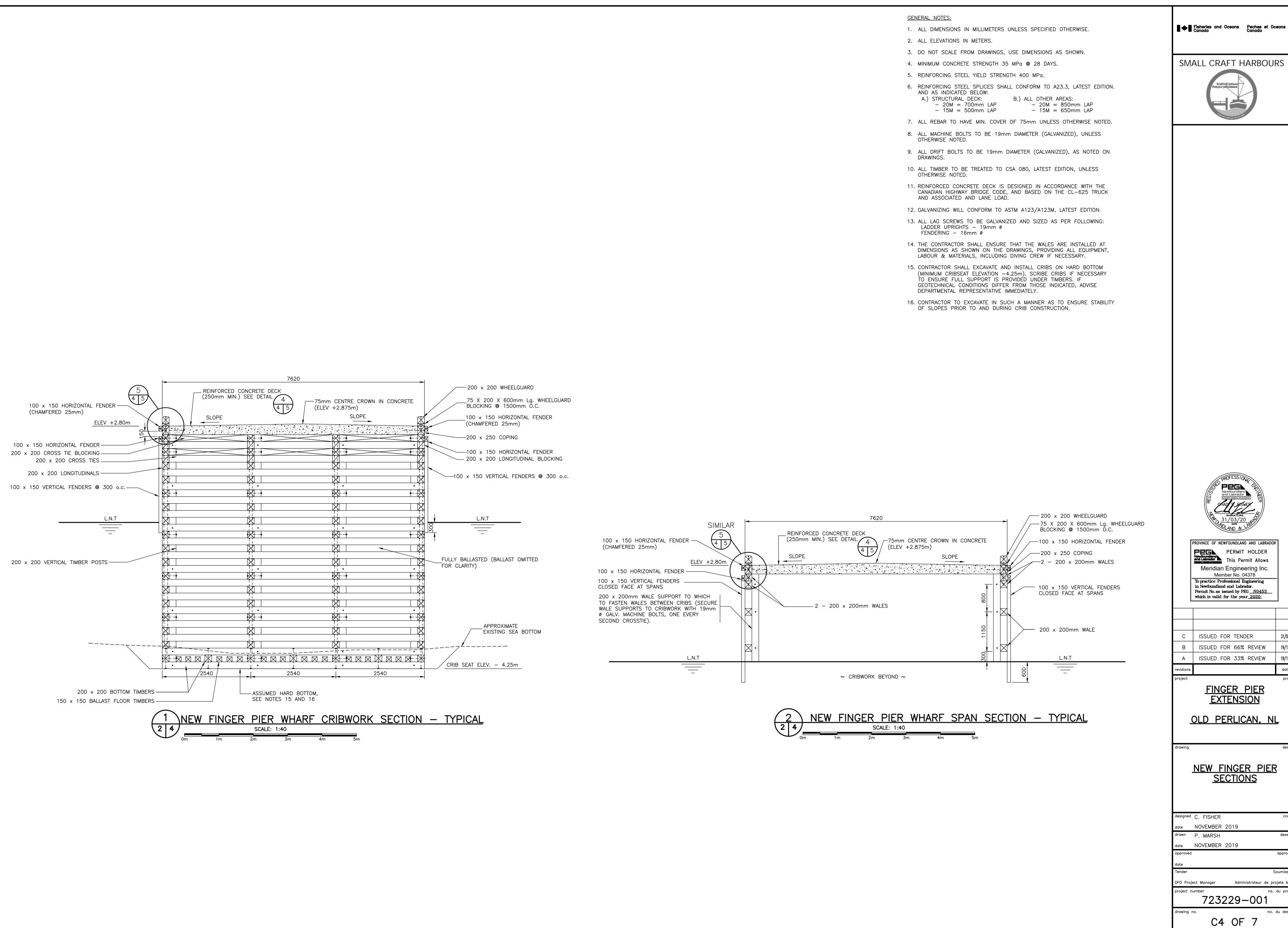
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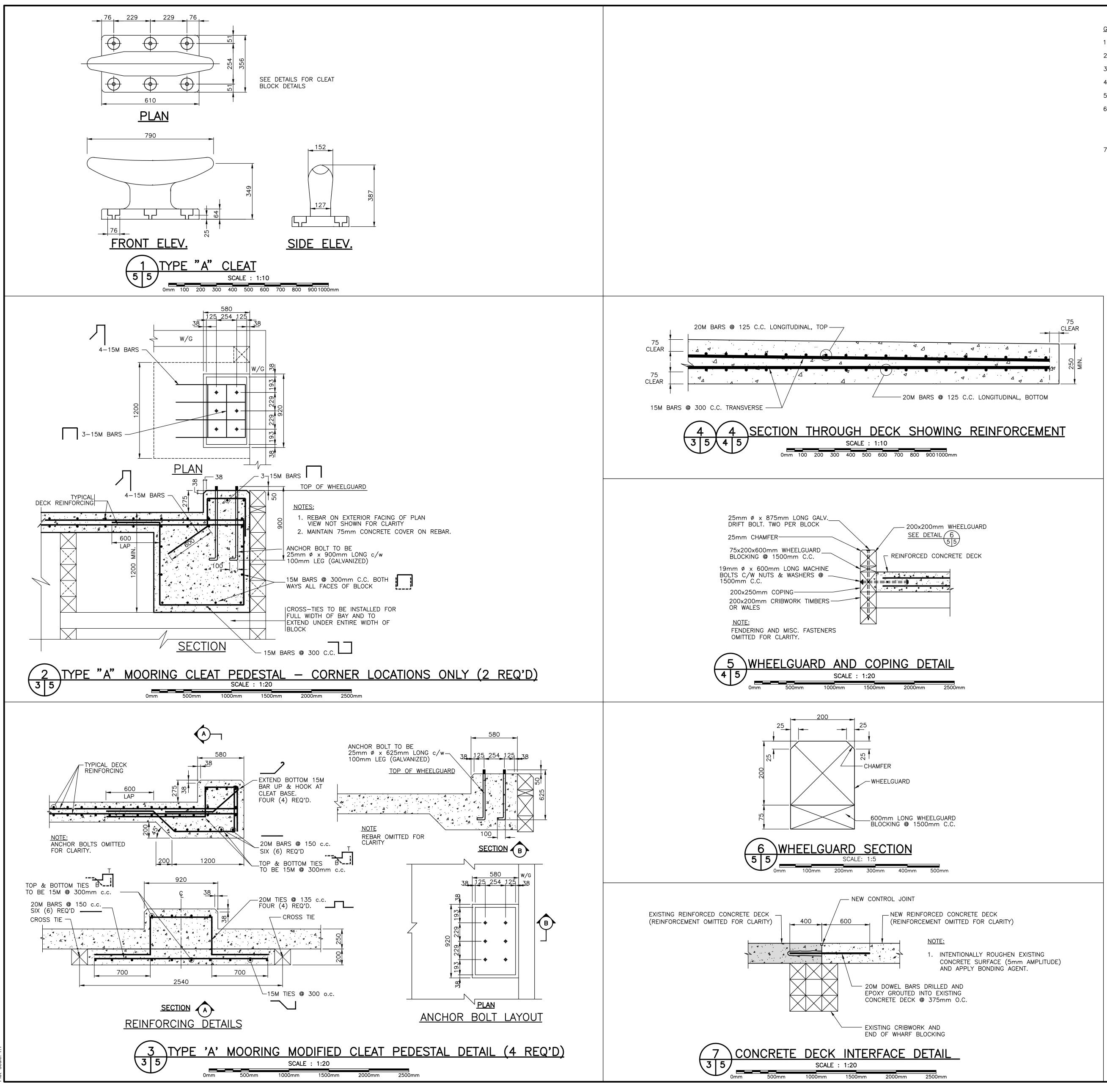


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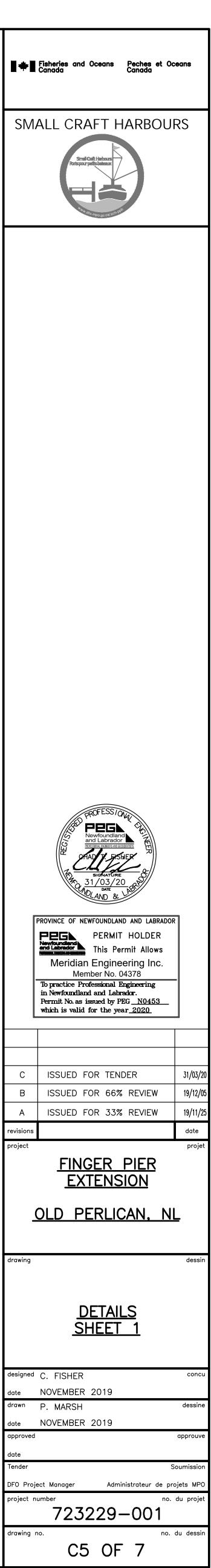


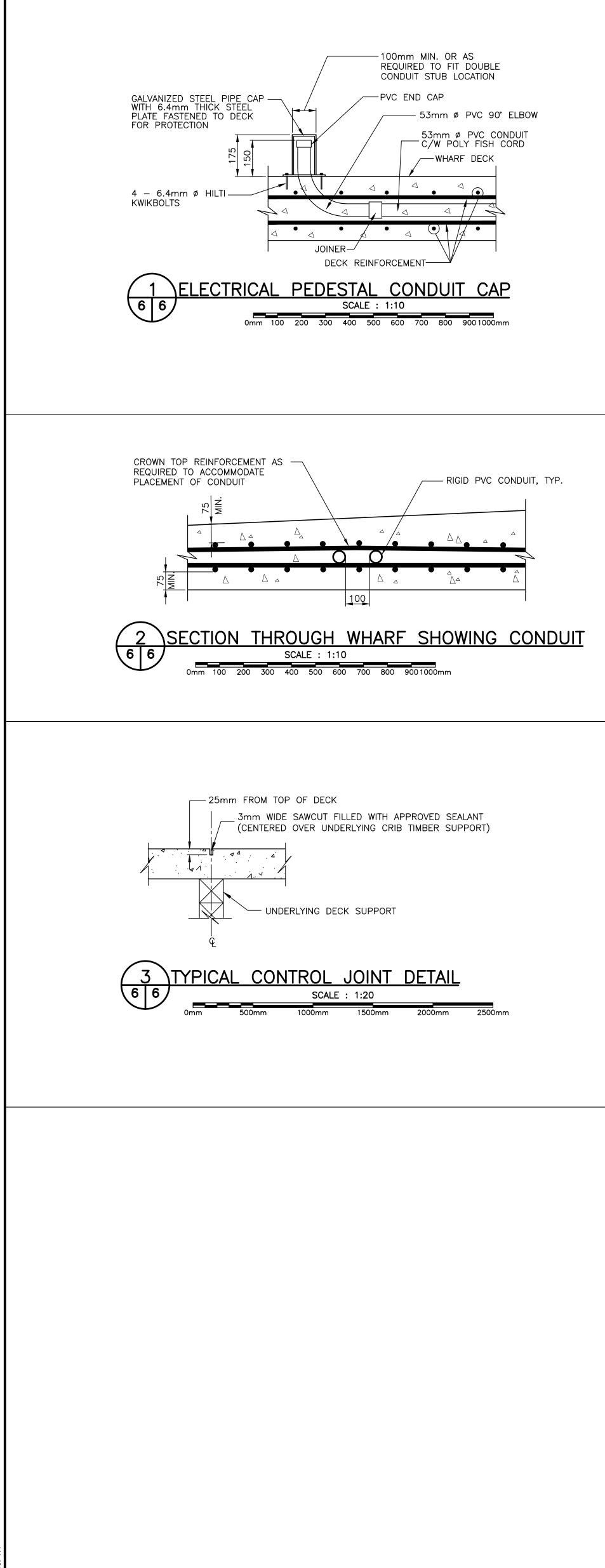
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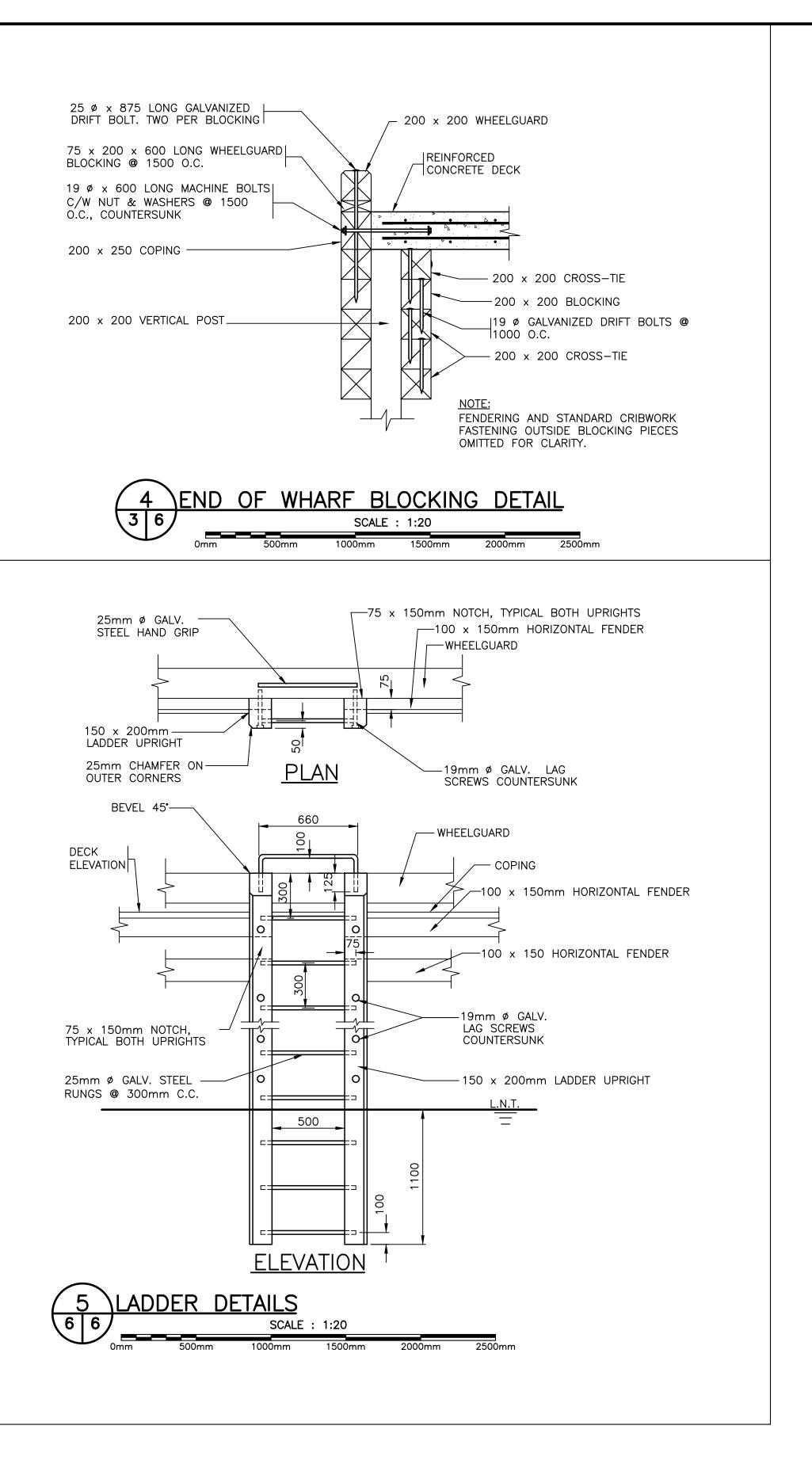
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- 2. ALL ELEVATIONS IN METERS.
- 3. DO NOT SCALE FROM DRAWINGS, USE DIMENSIONS AS SHOWN.
- 4. MINIMUM CONCRETE STRENGTH 35 MPa @ 28 DAYS.
- 5. REINFORCING STEEL YIELD STRENGTH 400 MPa.
- 6. REINFORCING STEEL SPLICES SHALL CONFORM TO A23.3, LATEST EDITION. AND AS INDICATED BELOW: A.) STRUCTURAL DECK: B.) ALL OTHER AREAS: - 20M = 700mm LAP- 20M = 850mm LAP
 - 15M = 500mm LAP- 15M = 650mm LAP

7. ALL REBAR TO HAVE MIN. COVER OF 75mm UNLESS OTHERWISE NOTED.

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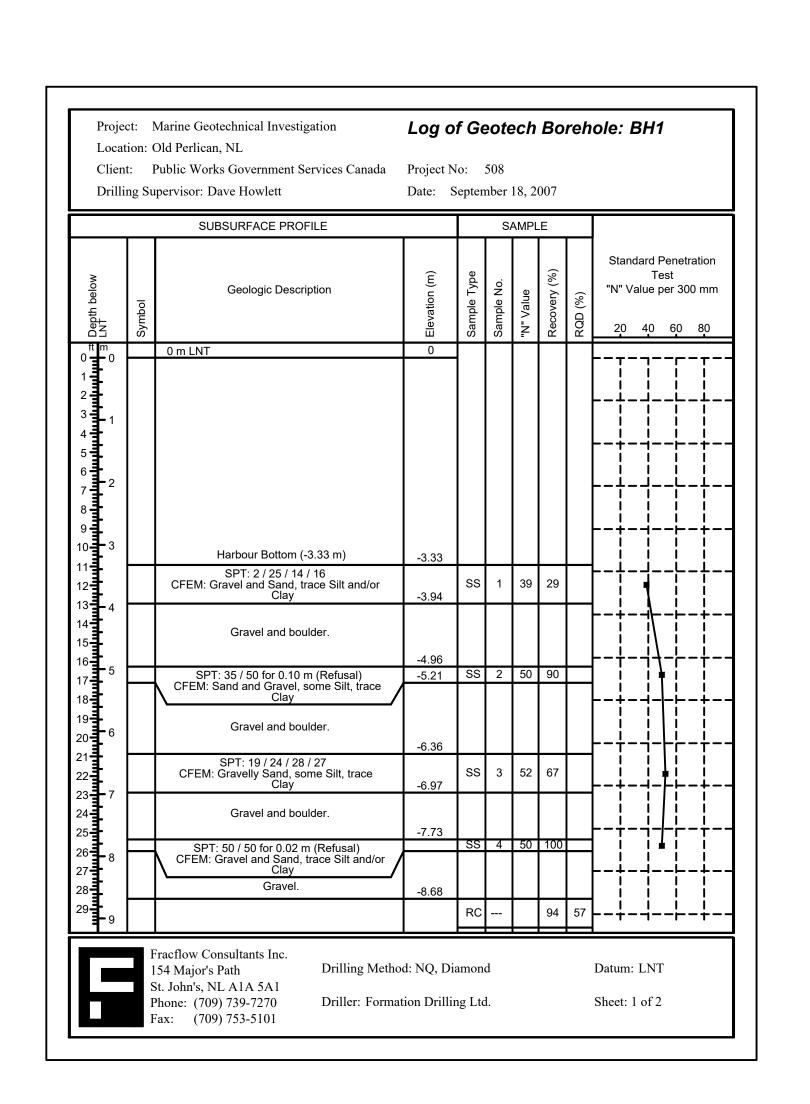
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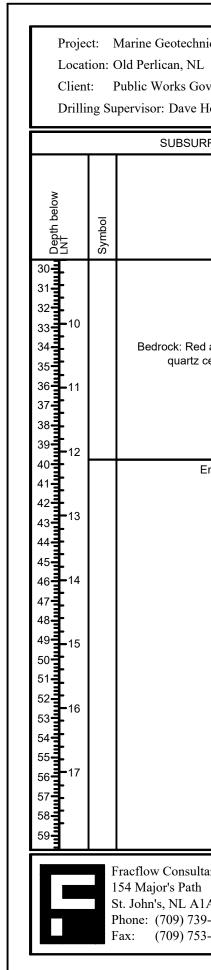
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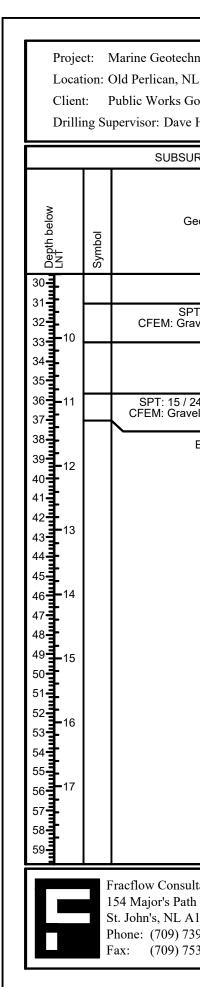


Small Craft Harbours





	upervisor: Dave Howlett	Date: S	Septer	noer	, 20	57		
	SUBSURFACE PROFILE			S	AMPL	E		
Symbol	Geologic Description	Elevation (m)	Sample Type	Sample No.	"N" Value	Recovery (%)	RQD (%)	Standard Penetrati Test "N" Value per 300 r 20 40 60 8
m - 0	0 m LNT	0	-					
-1 -2 -3 -4	Harbour Bottom (-3.60 m) SPT: 3 / 4 / 8 / 13 CFEM: Gravelly Sand, some Silt and/or Clay Gravel and Boulders.	-3.6 -4.21 -4.94	SS	1	12	50		
6	SPT: 50 for 0.13 m (Refusal) CFEM: Gravel and Sand, some Silt, trace Clay SS2; "N" Value = 50; Rec = 100% Gravel and Boulder. SPT: 50 for 0.10 m (Refusal) CFEM: Gravelly Sand, some Silt and/or	-6.54	33	3	<u>50</u>	<u>100</u>		
-7	Clay SS3; "N" Value = 50; Rec = 100% Gravel and Boulder.	-8.04						
: L	SPT: 11 / 22 / 23 / 25 CFEM: Gravelly Sand, some Silt, trace Clay	-8.65	SS	4	45	58		┝╼╪╾╡╁╼┡╼╴
-9	Gravel and Boulders.							┝╼╬╼╣┟╼╠╼╵

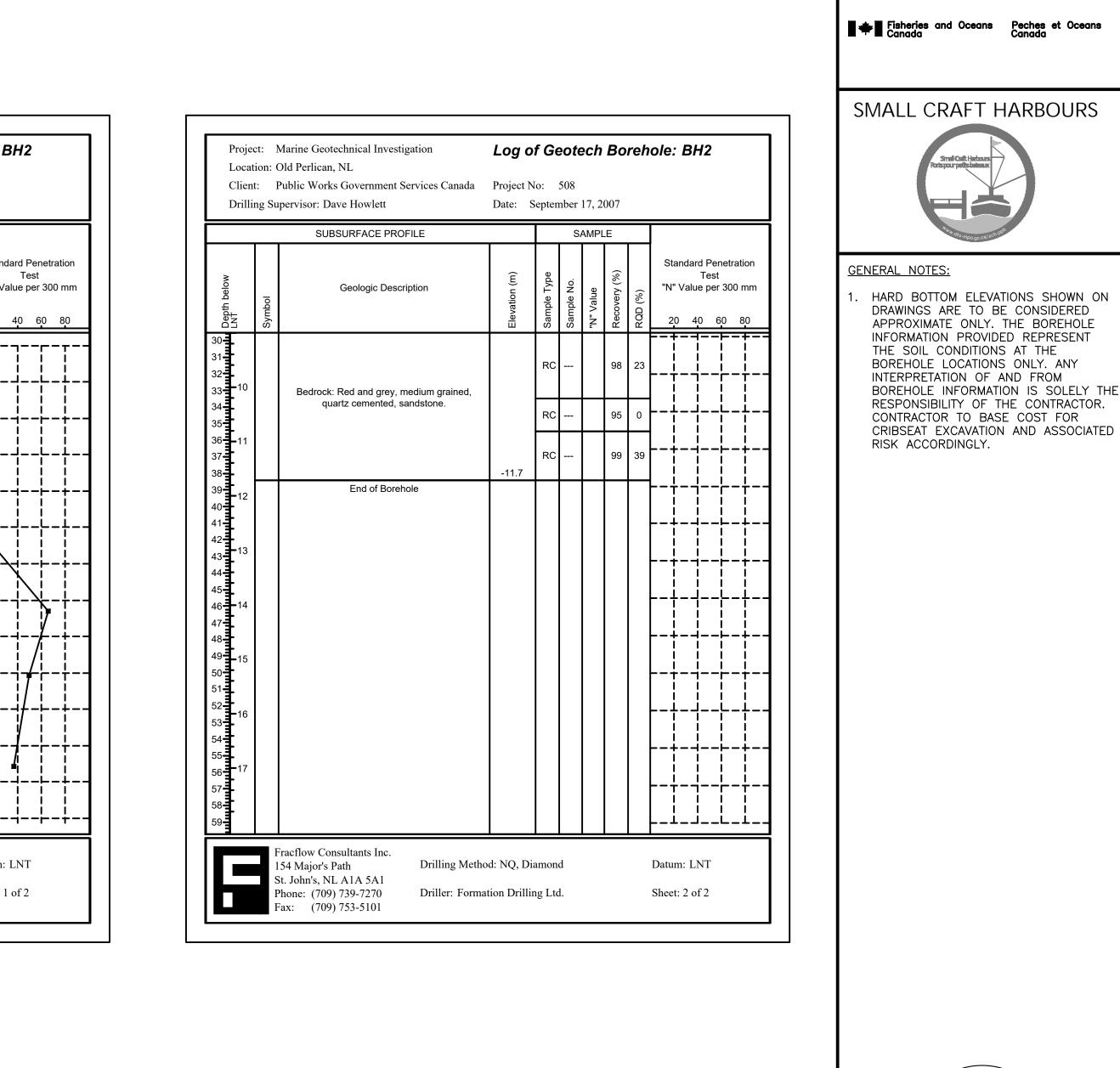


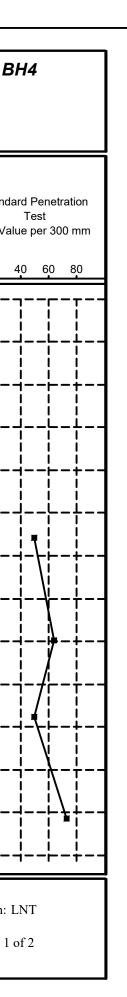
nnical Investigation	Log o	f Ge	eote	ech	Во	reh	ole: BH1					
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	Elevation (m)	Sample Type	Sample No.	"N" Value	Recovery (%)	Standard Penetration Test "N" Value per 300mm 20 40 60 80						
		RC			94	57	+					
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ed and grey, medium grained, z cemented, sandstone.		RC			100	56						
	-12.1	RC			92	67						
End of Borehole												
ltants Inc. h Drilling Metho A1A 5A1 39-7270 Driller: Forma 53-5101							Datum: LNT Sheet: 2 of 2					

			1		17, 2			
	SUBSURFACE PROFILE	1		S.	ampi I	LE T	1	1
	Geologic Description	Elevation (m)	Sample Type	Sample No.	"N" Value	Recovery (%)	RQD (%)	Stand "N" Va 20
T	0 m LNT	0						
	Harbour Bottom (-3.36 m)	-3.36						
E	Splitspoon sank 0.18 m.	-3.30						┝╼┼╸
	SPT: 6 / 6 / 16 / 25 CFEM: Sand and Gravel, trace Silt and/or Clay	-4.15	SS	1	22	33		
		-4.71						
	SPT: 28 / 26 / 40 / 47 CFEM: Sand and Gravel, some Silt, trace Caly	-5.32	SS	2	66	67		┝ - ┼- │
	Boulder and gravel.							├ -∔-
	SPT: 50 for 0 m (Refusal)	-6.21	-99	-9	50	0		┢╼┼╸
	No Sample Recovery. SS3; "N" Value = 50; Rec = 0%							 +-
	Boulder and gravel.	-7.63						
	SPT: 40 / 24 / 13 / 44 CFEM: Sand and Gravel, trace Silt and/or Clay	-8.24	SS	4	37	25		
F	Boulder.		RC			96	0	
						30	Ŭ	┢╼╁╸

nnical Investigation L overnment Services Canada Howlett	Project N		508			reh	ole: BH3	
IRFACE PROFILE			S	AMPL	.E			
eologic Description	Elevation (m)	Sample Type	Sample No.	"N" Value	Recovery (%)	RQD (%)	Standard Penetration Test "N" Value per 300mm 20 40 60 80	
	-9.47							
PT: 19 / 22 / 21 / 32 avelly Sand, some Silt, trace Clay	-10.1	SS	5	43	33			
Boulder.	-10.9						┝╍┼╍┤╸╲┽╸┼╸	
24 / 50 for 0.13 m (Refusal) vel and Sand, trace Silt and/or Clay	-11.3	SS	6	74	47		┝╌┼╌┥╌╌┝╺╋┽╴	
A1A 5A1	Drilling Method: NQ, Diamond Driller: Formation Drilling Ltd.							

	upervisor: Dave Howlett	Date: S	Septen								
-	SUBSURFACE PROFILE	SAMPLE									
Symbol	Geologic Description	Elevation (m)	Sample Type	Sample No.	"N" Value	Recovery (%)	RQD (%)				
	0 m LNT	0	4								
	Harbour Bottom (-3.70 m) SPT: 2 / 50 for 0.10 m (Refusal) CFEM: Sand and Gravel, trace Silt and/or Clay Gravel and Boulder.	-3.7 -3.95	SS	1	50	100					
		-5.17									
	SPT: 22 / 28 / 36 / 42 CFEM: Sand and Gravel, some Silt and/or Clay	-5.78	SS	2	64	67					
	Boulder.	-6.69									
	SPT: 50 for 0.0 m (Refusal) No sample recovery. SS3; "N" Value = 50; Rec = 0% Boulder.	-8.02	- 88	-3-	50	-0-					
	SPT: 29 / 38 / 35 / 45 CFEM: Gravelly, Silty Sand, trace Clay	-0.02	SS	4	73	75					
		-8.63	RC			94	0				
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Drilli	ng Sup	pervisor: Dave Howlett	Date:	Septer	nber	8, 20	07						
		SUBSURFACE PROFILE	1		S.	AMPL	.E						
Depth below LNT	Symbol	Geologic Description	Elevation (m) Sample Type Sample No. "N" Value Recovery (%) RQD (%)						Standard Penetration Test "N" Value per 300 mm 20 40 60 80				
ulu I				RC			100	87			1 F	+	
իսիսիսիսիսի 10		Bedrock: Red and grey, medium grained, quartz cemented, sandstone.		RC			98	78					
11 11 11			-11.6	RC			100	73			 	 	
ակակակակակակակակակակակակակակակակակակակ		End of Borehole											
	13 St Pl	actlow Consultants Inc.Drilling Method54 Major's PathDrilling Method John's, NL A1A 5A1Driller: Formationnone: (709) 739-7270Driller: Formationax: (709) 753-5101Driller: Formation							Datu Shee				

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Appendix C Regulatory Responses/Approvals



Government of Newfoundland and Labrador Department of Municipal Affairs and Environment Water Resources Management Division

> File No: <u>532-02</u> Permit No: ALT10060-2018

PERMIT TO ALTER A BODY OF WATER

Pursuant to the Water Resources Act, SNL 2002 cW-4.01, specifically Section(s) 48

Date:DECEMBER 21, 2018Permit Holder:Department of Fisheries and Oceans Canada
Small Craft Harbours Branch
John Cabot Building, 10 Barters Hill
St. John's, NL, A1C 5X1Attention:Mr. Paul Curran

Re: Minor DFO Dredging, Infilling, and Works Projects

Permission is hereby given for : routine dredging or beach grading of 3500 cubic metres or less of primarily sand, gravel, cobble and boulder material in order to provide safe navigation at various Department of Fisheries and Oceans' Small Craft Harbours facilities around the Province of Newfoundland and Labrador as well as the infilling of 500 square metres or less of DFO SCH leased waterlot to construct new or increase existing service/laydown areas at existing DFO SCH facilities, with reference to the application dated November 20, 2018.

- This Permit does not release the Permit Holder from the obligation to obtain appropriate approvals from other concerned municipal, provincial and federal agencies.
- The Permit Holder must obtain the approval of the Crown Lands Administration Division if the project is being carried out on Crown Land.
- This Permit is subject to the terms and conditions indicated in Appendices A and B (attached).
- It should be noted that prior to any significant changes in the design or installation of the proposed works, or in event of changes in ownership or management of the project, an amendment to this Permit must be obtained from the Department of Municipal Affairs and Environment under Section 49 of the *Water Resources Act*.

GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Municipal Affairs and Environment

File No: <u>532-02</u> Permit No: <u>ALT10060-2018</u>

APPENDIX A

Terms and Conditions for Permit

Dredging

- 1. Dredging activity must only be carried out during periods when wind, wave and tide conditions minimize the dispersion of silt and sediment from the work site.
- 2. The area to be dredged must be enclosed and isolated from the rest of the body of water through the use of a filter fabric curtain or similar method.
- 3. Dredged material must be disposed of in accordance with the regional Service NL Centre of the Department of Service NL. The Department of Service NL may require samples to be submitted for testing and analysis.

Infilling

- 4. The slopes along the perimeter of infilled areas must be no steeper than two horizontal to one vertical (2H:1V).
- 5. The constructed works must be inspected regularly so that action can be taken to undertake repairs as required.
- 6. Fill material must be obtained from an approved quarry site. It must not be taken from beaches or streams, and must not be dredged from a body of water.
- 7. The natural course of any stream must not be altered.
- 8. Infilling must not disrupt the established surface drainage pattern of the area.
- 9. Infilling must not cause increased water elevation upstream or increase flow velocity downstream of the site. Reduction of the natural cross sectional area of any watercourse is not permitted.
- 10. Before infilling, any vegetation and topsoil must be completely removed and under no circumstances shall it be used as fill material. Topsoil must be stored and reused in final landscaping of the infilled area.
- 11. The constructed works must comply with all other terms and conditions provided in the Crown Lands grant, lease, or license for occupancy.
- 12. Select heavy rocks must be placed along the toe of any infilling to provide slope stability and erosion protection.
- 13. A minimum 15 metre wide vegetated buffer zone must be maintained along the edge of the waterbody in order to provide bank stability and maintain local aesthetics.

Special Conditions

- 14. The Permit Holder must apply for and obtain a separate permit under the Water Resources Act, SNL 2002 cW-4.01, specifically Section 39 https://assembly.nl.ca/Legislation/sr/statutes/w04-01.htm for any minor dredging or associated works that may take place within any designated Protected Public Water Supply Area servicing any community as indicated in Water Resources Portal available at https://maps.gov.nl.ca/water/mapbrowser/Default.aspx.
- 15. The Permit Holder may be required to apply for and obtain a separate permit under the Water Resources Act, SNL 2002 cW-4.01, specifically Section 48 https://assembly.nl.ca/legislation/sr/statutes/w04-01.htm for any minor dredging or associated works that may take place within any designated flood risk area as indicated at https://www.mae.gov.nl.ca/waterres/flooding/frm.html.
- 16. Any alteration in or near a freshwater body (including wetlands) requires a separate permit under the Water Resources Act, SNL 2002 cW-4.01, specifically Section 48 https://assembly.nl.ca/legislation/sr/statutes/w04-01.htm. The Permit Holder must avoid work activities in wetlands wherever possible.
- 17. A water quality monitoring program is not required at this time. However, the Department reserves the right to require that the Permit Holder sample, analyze, and submit results of water quality tests, for the purpose of ensuring that the water quality

is maintained within acceptable guidelines. All analyses must be undertaken by a CALA accredited laboratory.

- 18. Suitable booms must be deployed around work sites to contain any floating debris that might otherwise be carried away. All booms must be properly maintained and remain in place until all work is completed.
- 19. Creosote treated wood must not be used in the construction of any structures in or within 15 metre of any body of water.
- 20. If a minor dredging or associated work carried out under this Permit does prohibit, restrict or impede public access along the shoreline reservation then the Permit Holder shall restore the shoreline reservation to the satisfaction of the Minister within sixty (60) days of a written notice.
- 21. For each minor dredging or associated work carried out under this Permit, the Permit Holder must notify this Department via email to waterinvestigations@gov.nl.ca or facsimile at (709)729-0320 in accordance with a reporting protocol as deemed necessary and appropriate in the opinion of the Minister. Also, each minor dredging or associated work carried out under this Permit shall be subject to the payment of applicable fee by the Permit Holder as stated in the application fee schedules approved by the Minister.
- 22. The acknowledgment of the receipt of this Permit by the Permit Holder constitutes the acceptance of this Permit and its terms and conditions and requirements stated in Appendices A, B and C.
- 23. At the end of each year, the permit holder submits a report of all the work done under this permit along with the applicable fees incurred during the period.

General Alterations

- 24. Any work that must be performed below the high water mark must be carried out during a period of low water levels.
- 25. Any flowing or standing water must be diverted around work sites so that work is carried out in the dry.
- 26. Water pumped from excavations or work areas, or any runoff or effluent directed out of work sites, must have silt and turbidity removed by settling ponds, filtration, or other suitable treatment before discharging to a body of water. Effluent discharged into receiving waters must comply with the *Environmental Control Water and Sewage Regulations*, 2003.
- 27. All operations must be carried out in a manner that prevents damage to land, vegetation, and watercourses, and which prevents pollution of bodies of water.
- 28. The use of heavy equipment in streams or bodies of water is not permitted. The operation of heavy equipment must be confined to dry stable areas.
- 29. All vehicles and equipment must be clean and in good repair, free of mud and oil, or other harmful substances that could impair water quality.
- 30. During the construction of concrete components, formwork must be properly constructed to prevent any fresh concrete from entering a body of water. Dumping of concrete or washing of tools and equipment in any body of water is prohibited.
- 31. Wood preservatives such as penta, CCA or other such chemicals must not be applied to timber near a body of water. All treated wood or timber must be thoroughly dry before being brought to any work site and installed.
- 32. Any areas adversely affected by this project must be restored to a state that resembles local natural conditions. Further remedial measures to mitigate environmental impacts on water resources can and will be specified, if considered necessary in the opinion of this Department.
- 33. The bed, banks and floodplains of watercourses, or other vulnerable areas affected by this project, must be adequately protected from erosion by seeding, sodding or placing of rip-rap.
- 34. All waste materials resulting from this project must be disposed of at a site approved by the Department of Service NL.
- 35. Periodic maintenance such as painting, resurfacing, clearing of debris, or minor repairs, must be carried out without causing any physical disruption of any watercourse. Care must be taken to prevent spillage of pollutants into the water.
- 36. The owners of structures are responsible for any environmental damage resulting from dislodgement caused by wind, wave, ice action, or structural failure.

- 37. Sediment and erosion control measures must be installed before starting work. All control measures must be inspected regularly and any necessary repairs made if damage is discovered.
- 38. Fill material must be of good quality, free of fines or other substances including metals, organics, or chemicals that may be harmful to the receiving waters.
- 39. The attached Completion Report (Appendix C) for Permit No. 10060 must be completed and returned to this Department upon completion of the approved works. Pictures must be submitted along with the completion report, showing the project site prior to and after development.
- 40. This Permit is effective January 1, 2019 and shall expire on December 31, 2020 or earlier if modified, suspended or cancelled by the Minister. Also, this Permit may be renewed by the Minister for such renewal term as the Minister deems appropriate, on such terms and conditions as the Minister considers appropriate and in the public interest, provided the Permit Holder applies for the renewal at least ninety (90) days before the expiry of this Permit.

41. All work must be carried out within the Permit Holder's legal property boundaries.

GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Municipal Affairs and Environment

File No: <u>532-02</u> Permit No: <u>ALT10060-2018</u>

APPENDIX B

Special Terms and Conditions for Permit

- 1. The Permit Holder and its agent(s), subcontractor(s), and consultant(s) shall keep all systems and works in good condition and repair and in accordance with all laws, by-laws, directions, rules and regulations of any governmental authority. The Permit Holder or its agent(s), subcontractor(s), or consultant(s) shall immediately notify the Minister if any problem arises which may threaten the structural stability of the systems and works, endanger public safety and/or the environment or adversely affect others and/or any body of water either in or outside the said Project areas. The Permit Holder and its agent(s), subcontractor(s), and consultant(s) shall be responsible for all damages suffered by the Minister and Government resulting from any defect in the systems and works, operational deficiencies/inadequacies, or structural failure.
- 2. The Permit Holder and its agent(s), subcontractor(s), and consultant(s) shall operate the said Project and its systems and works in a manner which does not cause any water related and/or environmental problems, including but not limited to problems of erosion, deposition, flooding, and deterioration of water quality and groundwater depletion, in or outside the said Project areas. The Permit Holder and its agent(s), subcontractor(s), and consultant(s) shall be responsible for any and all damages associated with these problems caused as a result of changes, deficiencies, and inadequacies in the operational procedures by the Permit Holder or its agent(s), subcontractor(s).
- 3. If the Permit Holder or its agent(s), subcontractor(s), or consultant(s) fails to perform, fulfil, or observe any of the terms and conditions, or provisions of this Permit, as determined by this Department, the Minister may, without notice, amend, modify, suspend or cancel this Permit in accordance with the *Water Resources Act*.
- 4. The Permit Holder and its agent(s), subcontractor(s), and consultant(s) indemnify and hold the Minister and Government harmless against any and all liabilities, losses, claims, demands, damages or expenses including legal expenses of any nature whatsoever whether arising in tort, contract, statute, trust or otherwise resulting directly or indirectly from granting this Permit, systems and works in or outside the said Project areas, or any act or omission of the Permit Holder or its agent(s), subcontractor (s), or consultant(s) in or outside the said Project areas, or arising out of a breach or non-performance of any of the terms and conditions, or provisions of this Permit by the Permit Holder or its agent(s), subcontractor(s), or consultant(s).
- 5. This Permit is subject to all provisions of the *Water Resources Act* and any regulations in effect either at the date of this Permit or hereafter made pursuant thereto or any other relevant legislation enacted by the Province of Newfoundland and Labrador in the future.

6. This Permit shall be construed and interpreted in accordance with the laws of the Province of Newfoundland and Labrador.

File No: <u>532-02</u> Permit No: <u>ALT10060-2018</u>

cc: Amir Ali Khan, Ph.D., P.Eng. Manager, Water Rights, Investigations and Modelling Section Water Resources Management Division Department of Municipal Affairs and Environment P.O. Box 8700 4th Floor, West Block, Confederation Building St. John's, NL A1B 4J6 akhan@gov.nl.ca

cc: File Copy for Binder

cc: Mr. Ken Russell (Labrador) Manager of Operations, GSC - Happy Valley-Goose Bay, Service NL Government Service Centre
2 Tenth Street, P.O. Box 3014, Stn. B Happy Valley-Goose Bay, NL A0P 1E0 krussell@gov.nl.ca

cc: Mr. Rick Curran (Eastern) Director of Regional Operations Avalon, Service NL 149 Smallwood Drive, MountPearl PO Box 8700 St. John's NL A1B 4J6 rjcurran@gov.nl.ca

cc: Mr. Robert Locke
 Manager of Operations and Environmental Protection, GSC - Mount Pearl, Service NL
 P.O. Box 8700
 St. John's, NL A1B 4J6
 rlocke@gov.nl.ca

cc: Mr. Wayne Lynch (Central) Regional Director (Central) Service NL P.O. Box 2222 Gander, NL A1V 2N9 waynelynch@gov.nl.ca

- cc: Ms. Susan Hoddinott (Western/Labrador) Regional Director Service NL PO Box 2006 Corner Brook NL A2H 6J8 SusanHoddinott@gov.nl.ca
- cc: Marine Safety Transport Canada, Atlantic Regional Headquarters Airports, Harbours and Ports, and Environmental Services 95 Foundry St. P.O. Box 42 Moncton, NB E1C 8K6 NPPATL-PPNATL@tc.gc.ca
- cc: Mark McNeil Public Works and Government Service Canada Suite 204, 1 Regent Square Corner Brook, NL A2H 7K6 mark.mcneil@pwgsc-tpsgc.gc.ca
- cc: Mr. Shawn Kean Environmental Services Public Works & Government Services Canada

John Cabot Building, 10 Barter's Hill P.O. Box 4600 St. John's, NL A1C 5T2 shawn.kean@pwgsc.gc.ca



Government of Newfoundland and Labrador Department of Municipal Affairs and Environment Water Resources Management Division

Appendix C - Completion Report

Pursuant to the Water Resources Act, SNL 2002 cW-4.01, specifically Section(s) 48

Date: DECEMBER 21, 2018

File No: <u>532-02</u> Permit No: <u>ALT10060-2018</u>

Permit Holder: Department of Fisheries and Oceans Canada Small Craft Harbours Branch John Cabot Building, 10 Barters Hill St. John's, NL, A1C 5X1

Attention: Mr. Paul Curran

Re: Minor DFO Dredging, Infilling, and Works Projects

Permission was given for : routine dredging or beach grading of 3500 cubic metres or less of primarily sand, gravel, cobble and boulder material in order to provide safe navigation at various Department of Fisheries and Oceans' Small Craft Harbours facilities around the Province of Newfoundland and Labrador as well as the infilling of 500 square metres or less of DFO SCH leased waterlot to construct new or increase existing service/laydown areas at existing DFO SCH facilities, with reference to the application dated November 20, 2018.

I (the Permit Holder named above or agent authorized to represent the Permit Holder) do hereby certify that the project described above was completed in accordance with the plans and specifications submitted to the Department of Municipal Affairs and Environment and that the work was carried out in strict compliance with the terms and conditions of the Permit issued for this project.

Date:

Signature:

This completion report must be completed and forwarded to the following address upon completion of the approved work.

Department of Municipal Affairs and Environment Water Resources Management Division PO Box 8700 St. John's NL A1B 4J6



P.O. Box 5667 St. John's, NL A1C 5X1

July 10, 2020

Your file Votre référence

Our file Notre référence

20-HNFL-00241

Paul Curran Small Craft Harbours, Fisheries and Oceans Canada 10 Barters Hill St. John's, NL A1C 5X1

Subject: Finger Pier Extension, Old Perlican – Implementation of Measures to Avoid and Mitigate the Potential for Prohibited Effects to Fish and Fish Habitat

Dear Mr. Curran:

The Fish and Fish Habitat Protection Program (the Program) of Fisheries and Oceans Canada (DFO) received your proposal on May 28, 2020.

We understand that you propose to:

• Construct an extension on an existing finger pier in Old Perlican, Newfoundland. The wharf extension will be a crib and span construction, consisting of 2 new cribs and spans, measuring approximately 7.6m wide by 21.3m long.

Our review considered the following information:

- A request for review, drawings, and project notification form received on May 22, 2020; and
- Additional information received on June 5 and 15, 2020.

Your proposal has been reviewed to determine whether it is likely to result in:

- the death of fish by means other than fishing and the harmful alteration, disruption or destruction of fish habitat which are prohibited under subsections 34.4(1) and 35(1) of the *Fisheries Act*; and
- effects to listed aquatic species at risk, any part of their critical habitat or the residences of their individuals in a manner which is prohibited under sections 32, 33 and subsection 58(1) of the *Species at Risk Act.*; and
- The introduction of aquatic species into regions or bodies of water frequented by fish where they are not indigenous, which is prohibited under section 10 of the *Aquatic Invasive Species Regulations*.]

The aforementioned outcomes are prohibited unless authorized under their respective legislation and regulations.



To avoid and mitigate the potential for prohibited effects to fish and fish habitat (as listed above), we recommend implementing the measures listed below:

- The project should be carried out in a manner that minimizes the release of sediment and/or other project related material in the waters of Old Perlican or any adjacent water body.
- Limit the duration of in-water works, undertakings and activities so that it does not diminish the ability of fish to carry out one or more of their life processes (spawning, rearing, feeding, migrating).
- Implement erosion and sedimentation controls as needed to avoid the introduction of sediment into any waterbody during all phases of work including:
 - Installation of effective erosion and sediment control measures prior to beginning work in order to stabilize all erodible areas.
 - Regular inspection and maintenance of erosion and sediment control measures and structures during all phases of the project.
 - Regularly monitor the watercourse for signs of sedimentation during all phases of the project and take corrective action.
 - Keep the erosion and sediment control measures in place until all disturbed ground has been permanently stabilized.
 - Remove all exposed, non-biodegradable sediment control materials once the site is stabilized.
 - Dispose of, and stabilize, all excavated materials above the high water mark of any waterbodies and ensure sediment re-entry into a watercourse is prevented.
 - Schedule work to avoid wet, windy, and rainy periods that may result in high flow volumes and/or increase erosion and sedimentation.
- All equipment used in water should be cleaned, drained and dried on land before and after use for the purposes of preventing the introduction or spread of aquatic invasive/non-indigenous species.
- All machinery on site should be kept in a clean condition and free of fluid leaks to prevent any deleterious substances from entering the water.
- Armour stone should be clean blasted rock or boulders, free of fines or sediment, concrete or any other deleterious substance.
- Amour stone should be of sufficient size to withstand displacement by storm surges, wave action or tidal activity.
- Armour Stone should be blocky, angular shape and comprised of mixed gradation so that smaller rock fill the interstitial spaces between the larger

rock to provide compaction and stability, as well as possible substrate for kelps and algae colonization.

• When works are completed, shoreline and approaches should be restored to original condition.

Provided that you incorporate these measures into your plans, the Program is of the view that your proposal is not likely to result in the contravention of the above mentioned prohibitions and requirements.

Should your plans change or if you have omitted some information in your proposal, further review by the Program may be required. Consult our website (<u>http://www.dfo-mpo.gc.ca/pnw-ppe/index-eng.html</u>) or consult with a qualified environmental consultant to determine if further review may be necessary. It remains your responsibility to remain in compliance with the *Fisheries Act*, the *Species at Risk Act* and the *Aquatic Invasive Species Regulations*.

It is also your *Duty to Notify* DFO if you have caused, or are about to cause, the death of fish by means other than fishing and/or the harmful alteration, disruption or destruction of fish habitat. Such notifications should be directed to (<u>http://www.dfo-mpo.gc.ca/pnw-ppe/contact-eng.html</u>).

We recommend that you notify this office at least 10 days before starting your project and that a copy of this letter be kept on site while the work is in progress. It remains your responsibility to meet all other federal, territorial, provincial and municipal requirements that apply to your proposal.

If you have any questions with the content of this letter, please contact me by telephone at (709) 693-8291 or by email at Tonya.Warren@dfo-mpo.gc.ca. Please refer to the file number referenced above when corresponding with the Program.

Yours sincerely,

Inya Waven

Tonya Warren Senior Regulatory Review Biologist - Regulatory Review Fish and Fish Habitat Protection Program, Ecosystems Management Branch Fisheries and Oceans Canada P.O. Box 5667 St. John's, NL A1C 5X1 Email: <u>Tonya.Warren@dfo-mpo.gc.ca</u> Cell: (709) 693-8291